



VCK FOUNDRY
TECHNOLOGY

CONSULTANCY WORK FOR YAER 2022-23

Sr. No	Name of Industry	Test Required	No. of Samples	Amount
1	M/S Ask Foundry	Microstructure	1	500
2	M/S Abhijeet Casting Pvt. Ltd.	Microstructure	1	500
3	M/S Samarth Industries	Microstructure	1	500
4	M/S Model Infra Corporation P. Ltd	Hardness	15	7500
5	M/S Model Infra Corporation P. Ltd	Hardness	15	7500
6	M/s Manugraph India LTD.	Inclusion Rating	1	500
7	M/r Santosh Pattern	Microstructure	1	500
8	M/s. Sunil Industries	Salt Spray Corrosion Test	1	1000
9	M/s. Sunil Industries	Salt Spray Corrosion Test	1	1000
10	M/S Gnat Foundry Pvt.Ltd	Microstructure	1	500
11	M/s Budhale & Budhale (Unit No - 01)	Salt Spray Corrosion Test	1	1000
12	M/S Shivshambho Alloys	Microstructure	1	500
13	Bharat Auto Ind.	Volumn Fraction Phase	1	1450
14	M/S Auto Founders	Microstructure	1	500
15	M/S Raj Rajeshwari Founders	Microstructure	1	500
16	M/s Kaneri Industries U 2	Microstructure	1	500
17	M/S Gangadhar Alloy Pvt. Ltd.	Salt Spray Corrosion Test	1	1000
18	M/S Gangadhar Alloy Pvt. Ltd.	Volumn Fraction Phase	1	1450
19	M/S Netmech Founders PVT.LTD	C.P.C.	1	300
20	M/s Manugraph India LTD.	Inclusion Rating	1	500
21	M/s Manugraph India LTD.	Inclusion Rating	1	500
22	M/s Budhale & Budhale (Unit No - 04)	Salt Spray Corrosion Test	1	1000
23	M/s Budhale & Budhale (Unit No - 04)	Salt Spray Corrosion Test	1	1000
24	M/S Asha Fine Metallics	Microstructure	1	500
25	M/s Manugraph India LTD.	Microstructure	1	500
26	M/s Manugraph India LTD.	Inclusion Rating	1	500
27	M/S Model Infra Corporation P. Ltd	Hardness	15	7500
28	M/s. Rocket Engineering Corporation Pvt. Ltd.	Microstructure	1	500
29	M/s. Rocket Engineering Corporation Pvt. Ltd.	Microstructure	1	500



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TECHNOLOGY

30	M/s. S & P Enterprises	Microstructure	1	500
31	M/s Tirupati Casting	Microstructure	1	500
32	M/s Tirupati Casting	Microstructure	1	500
33	M/S- Matoshri Industries	Microstructure	1	500
34	M/S Adi Engineering	Microstructure	1	500
35	M/S Adi Engineering	Microstructure	1	500
36	M/S Kaneri Industries U 2	Hardness in BHN	1	500
37	M/S Kaneri Industries U 2	Hardness in HRC	3	1500
38	M/S Kaneri Industries U 2	Hardness in BHN	1	500
39	M/S Kaneri Industries U 2	Hardness in HRC	3	1500
40	M/S Ask Engineering	Microstructure	1	500
41	M/s GSI Engineering	Hardness in BHN	10	5000
42	M/s GSI Engineering	Hardness in BHN	10	5000
43	M/s Manugraph India LTD.	Inclusion Rating	1	500
44	M/S Versatile Industries	C.P.C	1	300
45	M/S Netmech Founders PVT.LTD	C.P.C	1	300
46	M/S Tri tech Metals Pvt. Ltd	Hardness in BHN	2	1000
47	M/S Shivshambho Alloys	Microstructure	1	500
48	M/S Shivshambho Alloys	Microstructure	1	500
49	M/S Shivshambho Alloys	Microstructure	1	500
50	M/S Model Infra Corporation P. Ltd	Hardness	15	7500
51	M/S Shivshambho Alloys	Microstructure	1	500
52	M/S Shivshambho Alloys	Microstructure	1	500
53	M/S Shivshambho Alloys	Microstructure	1	500
54	M/S Kaneri Industries U 2	Microstructure	1	500
55	M/S Kaneri Industries U 2	Hardness in HRC	10	5000
56	M/S Adi Engineering	Microstructure	1	500
57	M/S Model Infra Corporation P. Ltd	Hardness	15	7500
58	M/S Versatile Industries	C.P.C	2	600
59	M/S Netmech Founders PVT.LTD	C.P.C	1	300
60	M/S Shri Sai Traders	C.P.C	1	300



61	M/S Kaneri Industries U 2	Hardness in HRC	10	5000
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Revenue through Consultancy	Total	90000/-
To Department: 29520/-	GST 18 %	16200/-
To College: 44280/-	Final Amount	73800/-


HEAD
B. VOC. FOUNDRY TECHNOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)


Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur


PRINCIPAL
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Jr. College Recog. No. H.S.C./1074/R-1/DT : 8-8-1976
Jr. College Code No. 23-09-002
Jr. College U.Dise No. 27341301006

“ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार”
शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Estd. : June 1964



Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

2130, 'E' Tarabai Park, Kolhapur, Tal. Karvaer, Dist. Kolhapur-416003
Affiliated to Shivaji University, Kolhapur (M.S.)

NAAC Reaccredited : "A" (CGPA 3.24)
College with Potential for Excellence by U.G.C., New Delhi
"Star College" by D.B.T. Govt. of India
ISO 9001 : 2015



(स्वायत्त) कोल्हापूर

Ph. : 0231-2658612, 2658840 | Fax : 0231-2658840 | Resi. : 0231-2653962 | Website : www.vivekanandcollege.org | E-mail : info@vivekanandcollege.org

Founder
Dr. Bapuji Salunkhe
D. Litt.

President
Hon. Chandrakant Dada Patil
MLA


Chairman
Prin. Abhaykumar Salunkhe
M.A.

Secretary
Prin. Mrs. Shubhangi Gavade
M.Sc., B.Ed.

Principal
Dr. R. R. Kumbhar
M.Sc. M.Phil. Ph.D.

Ref. No. VCK/

Date:

INVOICE				
The Metasis Lab Shiroli MIDC, Kolhapur-416122		INVOICE NO.	222302	DATE - 02.05.2023
Sr. No.	Description	Qty in Nos.	Rate	Amount
1	Microstructure Analysis	9	500/-	4500/-
2	Hardness	72	500/-	36000/-
3	Inclusion Rating	1	500/-	500/-
4	C.P.C.	6	300/-	1800/-
Total Amount				42800/-
Amount In Words:- Forty Two Thousand Eight Hundred Only				
		For VCK Foundry Technology		
				
		Authorized Signature		

VIVEKANAND COLLEGE
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M.Sc., B.Ed.

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Dr. R. R. Kumbhar
M.Sc. M.Phil. Ph.D.

Ref. No. VCK/

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Sr. No.	Description	Qty in Nos.	Rate	Amount
1	Microstructure Analysis	19	500/-	9500/-
2	Volume Fraction	2	1450/-	2900/-
3	Salt Spray Test	6	1000/-	6000/-
4	Hardness	53	500/-	26500/-
5	Inclusion Rating	4	500/-	2000/-
6	C.P.C.	1	300/-	300/-
Total Amount				47200/-
Amount In Words:- Forty Seven Thousand Two Hundred Only				
		For VCK Foundry Technology		
		Authorized Signature		

PRINCIPAL
VIVEKANAND COLLEGE
KOLHAPUR (AUTONOMOUS)

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6	C.P.C.	1	300/-	300/-
		Total (GST Inclusive)		47200.00
		CGST @ 9 %		4248.00
		SGST @ 9 %		4248.00
GSTIN -		Total Amount		47200/-
Amount In Words:- Forty Seven Thousand Two Hundred Only				
Pan No.-		For VCK Foundry Technology		
		Authorized Signature		
		 PRINCIPAL VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)		

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GSTIN -		Total Amount		42800/-
Amount In Words:- Forty Two Thousand Eight Hundred Only				
Pan No.-		For VCK For by Technology		
		Authorized Signature:-  PRINCIPAL, VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)		



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/07/2022

To,
Nodal Officer
Department of Foundry Technology,
Vivekanand College (Autonomous),
Kolhapur.

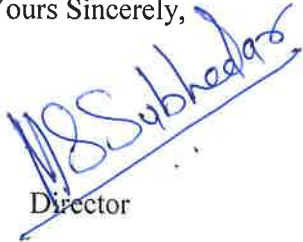
Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,


Director

Metasis Lab



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

Customer Name
M/S Abhijeet Casting Pvt. Ltd.
Plot No. -09 , R.S.586, Behind Navjeevan
Path Sanstha , MIDC Shiroli -416122

Test Report No.- E 1901-1
Date - 04.07.2022

Your Ref. - Challan No.- 41

Date - 04.07.2022

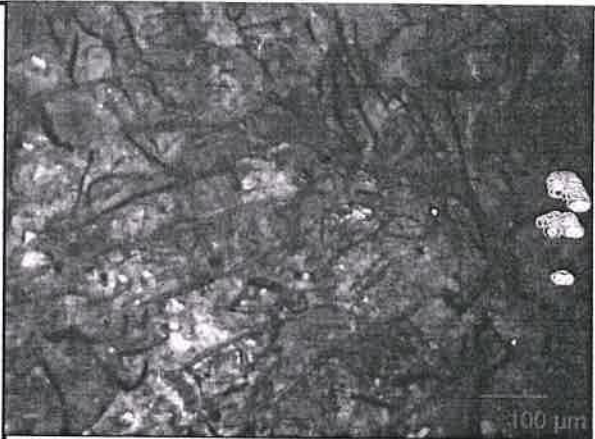
Sample Description- T 1 Br Drum

Heat No - 3 F 22

Grade - FG 260

The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Etched 100 X

Microstructure of sample shows well formed
graphite flake size 4 - 6 , A Type 97 % &
C Type 3 %

Microstructure of sample shows fine lamellar
pearlite 96 % & free ferrite 4 %

For VCK Foundry Technology

Signature
SAR

Signature
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/s Manugraph India LTD.
Unit No :- 1 M.I.D.C ,
Shiroli , Kolhapur - 416 122 .

Test Report No.- E 1891-1
Date - 05.07.2022


Your Ref. - Challan No. - TST 215359

Date - 03.07.2022

Sample Description - Drg No - D 915 A 33158

Grade - En 8

The above sample has been tested and results are as below

Inclusion Rating			
	Inclusion Rating		
	Magnification 100 X		
	Type	Thin	Thick
	A	1.5	2
	B	1.0	-
C	1.0	-	
D	1.5	2	

For VCK Foundry Technology

Shomin
S.A.K.

Josh
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/S Ask Foundry
B- 57, MIDC , Gokul Shirgaon
Kolhapur-416234

Test Report No.- E 1973
Date - 08.07.2022

Your Ref - Challan No.- 49

Date - 07.07.2022

Sample Description- Port Plate
Heat No - 04/18

Part No - 1000-059-C00
Grade - EG 220

The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Etched 100 X

Microstructure of sample shows well formed
graphite flake size 4 - 7 , A Type 92 % &
B Type 8 %

Microstructure of sample shows fine lamellar
pearlite 97 % & free ferrite 3 %

Signature
SMB

For VCK Foundry Technology

Signature
Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

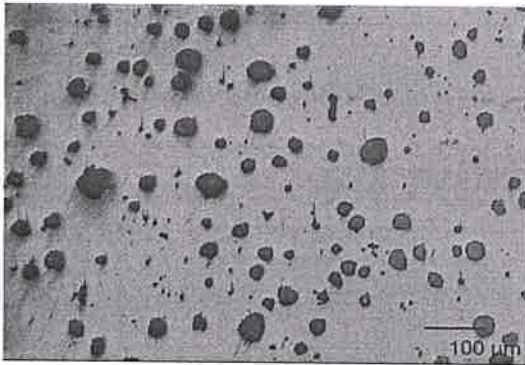
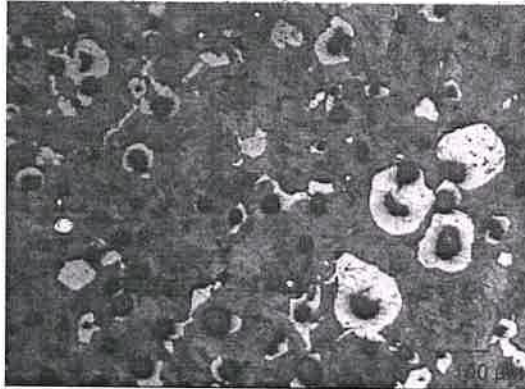
M/r Santosh Pattern
G 32 ,Shiroli,MIDC.
Kolhapur .

Test Report No.- E 3309
Date - 10.07.2022

Your Ref. - Challan No.- RFN 217
Sample Description- Micro Sample
Grade - 450 / 10

Date - 10.07.2022
Heat Code - 7 G 22

The above samples has been tested and result are as below.

Microstructure	
	
Unetched 100 X	Etched 100 X
Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 92 % & nodule count 310 per mm square .	Microstructure of sample shows fine lamellar pearlite 92 % & free ferrite 8 % .

For VCK Foundry Technology .

Santosh
S.A.R.

Joshi
Authorised Signature

Nodal Officer
B. Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

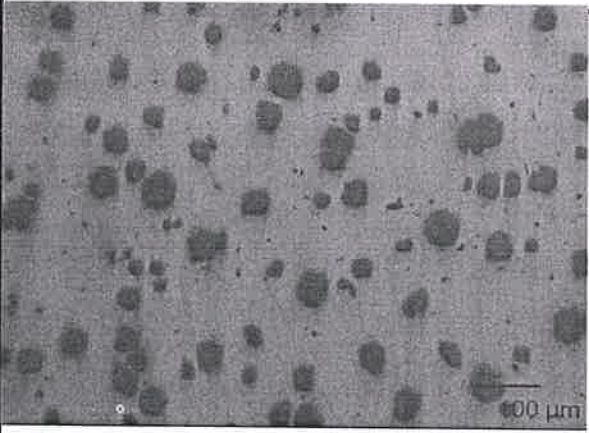
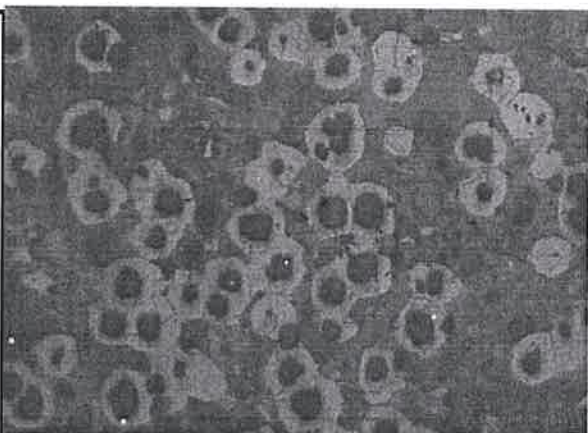
M/S Samarth Industries
F - 2 ,M.I.D.C. , Shirol
Kolhapur-416122

Test Report No.- E 2068
Date - 10.07.2022

Your Ref. - Challan No.- RFN 123
Sample Description- CGQU 011740A , Upper Arm Raw
Grade - 400 / 15

Date - 10.07.2022

The above samples has been tested and result are as below.

Microstructure	
	
Unetched 100 X	Etched 100 X
Microstructure of sample shows graphite nodules of size 4 - 7, Nodularity 88 % & nodule count 170 per mm square	Microstructure of sample shows fine lamellar pearlite 65 % & nodules surrounded by free ferrite 35 %

Sham
SAK

For VCK Foundry Technology


Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/S Model Infra Corporation P. Ltd
P.No - L- 13,Verna Industrial Estate,
Verna Goa.

Test Report No.- E 2567-1
Date - 25.07.2022

Your Ref. - Challan No.- GA/PTS/2223/01012

Date - 21.07.2022

Sample Description - Sample For Hardness

Item No - RM 0103005001

The above sample has been tested and results are as below.

Hardness		
Plate No	Thickness	Vickers Hardness HV 1 Kg
P 4731	3 mm	248 - 250
P 4732	3 mm	268 - 270
A 5510	6 mm	266 - 268 *
B 5510	6 mm	240 - 242
P 5529	8 mm	256 - 258
P 5528	8 mm	260 - 262
P 6125	4 mm	254 - 256
P 7089	4 mm	250 - 252
P 7088	4 mm	244 - 246
P7121	4 mm	262 - 264
P 7129	4 mm	270 - 272
P 7130	4 mm	252 - 254
P 7131	4 mm	264 - 266
P 7193	5 mm	254 - 256
P 7940	5 mm	278 - 280

For VCK Foundry Technology

Shamir
SAR

Joshi

Authorised Signature

Nodal Officer
B.Voc. & Community-College Unit
Vivekarand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/S Model Infra Corporation P. Ltd
P.No - L- 13,Verna Industrial Estate,
Verna Goa.

Test Report No.- E 2567-2
Date - 25.07.2022

Your Ref. - Challan No.- GA/PTS/2223/01012

Date - 21.07.2022

Sample Description - Sample For Hardness

Item No - RM 0103005001

The above sample has been tested and results are as below

Hardness		
Plate No	Thickness	Vickers Hardness HV 1 Kg
P 7941	5 mm	259 - 261
P 7942	5 mm	263 - 265
P 7943	5 mm	248 - 250
P 7944	5 mm	267 - 269
P 7945	5 mm	251 - 253
P 7946	5 mm	240 - 242
P 7947	5 mm	268 - 270
P 7948	5 mm	263 - 265
P 7949	5 mm	272 - 274
P 7950	5 mm	258 - 260
P 7951	5 mm	252 - 254
P 7952	5 mm	264 - 266
P 8364	6 mm	268 - 270
P 8365	6 mm	276 - 278
P 8366	6 mm	272 - 274

For VCK Foundry-Technology

Signature
SAR

Signature

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/08/2022

To,
Nodal Officer
Department of Foundry Technology,
Vivekanand College (Autonomous),
Kolhapur.

Subject: To provide collaborated testing and consultancy services.

Respected sir,

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Thanking you,

Yours Sincerely,

M.S. Subhedkar

Director

Metasis Lab



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

Customer Name
M/s. Sunil Industries
F - 2, MIDC, Gokul Shirgaon,
Kolhapur .

Test Report No. - E 3829
Date - 06.08.2022

Your Ref. - Challan No. - 986

Date - 06.08.2022

Sample Description - Gear Shift Lever MTG Bracket

Part No. - 6702DAP00020N

The above sample has been tested and result are as below.

Salt Spray Corrosion Test	
Salt Spray Solution - 5 % NaCl	pH - 6.98 (6.5 - 7.5)
Temp - 35 ⁰ C	RH - 99 %
Duration - 250 Hrs	Fog Collection - 1.61 ml. / Hour
Result	
Upto 24 Hrs	No Red rust observed
Upto 48 Hrs	No Red rust observed
Upto 72 Hrs	No Red rust observed
Upto 96 Hrs	No Red rust observed
Upto 120 Hrs	No Red rust observed
Upto 144 Hrs	No Red rust observed
Upto 168 Hrs	No Red rust observed
Upto 192 Hrs	No Red rust observed
Upto 216 Hrs	No Red rust observed
Upto 240 Hrs	No Red rust observed
Upto 250 Hrs	No Red rust observed

S. K. S.

For VCK Foundry Technology

Josh
Authorised Signature

Nodal Officer
B. Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/s. Sunil Industries
F - 2, MIDC, Gokul Shirgaon,
Kolhapur .

Test Report No.- E 3829
Date- 06.08.2022

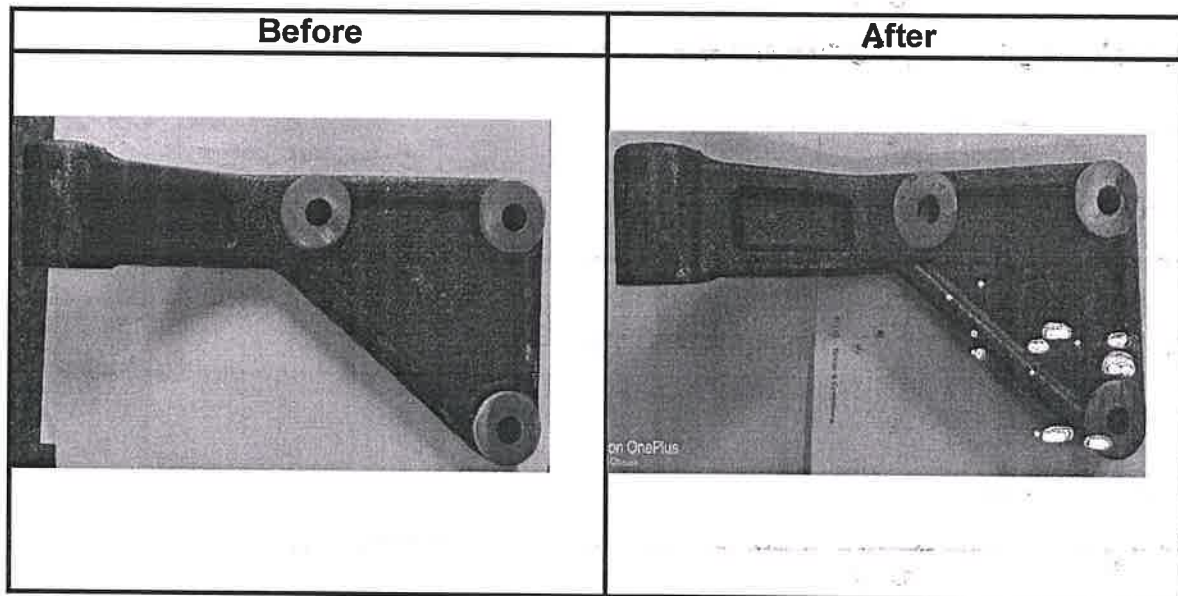
Your Ref. - Challan No. - 986

Date - 26.07.2022

Sample Description- Gear Shift Lever MTG Bracket

Part No-6702DAP00020N

The above sample has been tested and result are as below.



For VCK Foundry Technology

S. K. SAK
SAK

Joshi
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

Customer Name
M/s. Sunil Industries
F - 2, MIDC, Gokul Shirgaon,
Kolhapur .

Test Report No.- E 3827
Date- 06.08.2022

Your Ref. - Challan No. - 986
Sample Description- Brake Drum

Date - 26.07.2022
Part No-0602AAb00330N

The above sample has been tested and result are as below.

Salt Spray Corrosion Test	
Salt Spray Solution- 5 % NaCl	pH - 6.98 (6.5- 7.5)
Temp - 35 ⁰ C	RH - 99 %
Duration - 250 Hrs	Fog Collection - 1.61 ml / Hour
Result	
Upto 24 Hrs	No Red rust observed
Upto 48 Hrs	No Red rust observed
Upto 72 Hrs	No Red rust observed
Upto 96 Hrs	No Red rust observed
Upto 120 Hrs	No Red rust observed
Upto 144 Hrs	No Red rust observed
Upto 168 Hrs	No Red rust observed
Upto 192 Hrs	No Red rust observed
Upto 216 Hrs	No Red rust observed
Upto 240Hrs	No Red rust observed
Upto 250Hrs	No Red rust observed

For VCK Foundry Technology

S. A. K.
S.A.K.

Authorised Signature

N. S. G.
N. S. G.

B. Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S S.S. Industries
Shiroli (P), MIDC.
Kolhapur .

Test Report No.- E 4424
Date - 13.08.2022

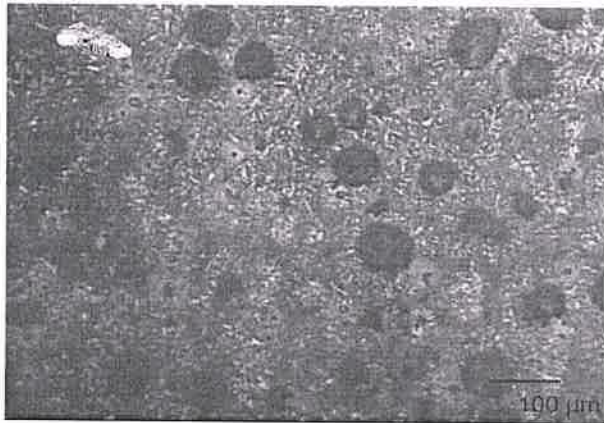
Your Ref. - Challan No.- RFN 277

Date - 12.08.2022

Sample Description- Ring
Grade - 400 / 12

The above sample has been tested and results are as below

Microstructure



Etched 100 X (3% Nital)

Induction Hardening case

Microstructure of sample consists of graphite
nodules embedded in predominantly
martensite

matrix with traces of bainite , free ferrite

For VCK Foundry Technology

Shamir
SAR

Joshi
Authorised Signature
Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

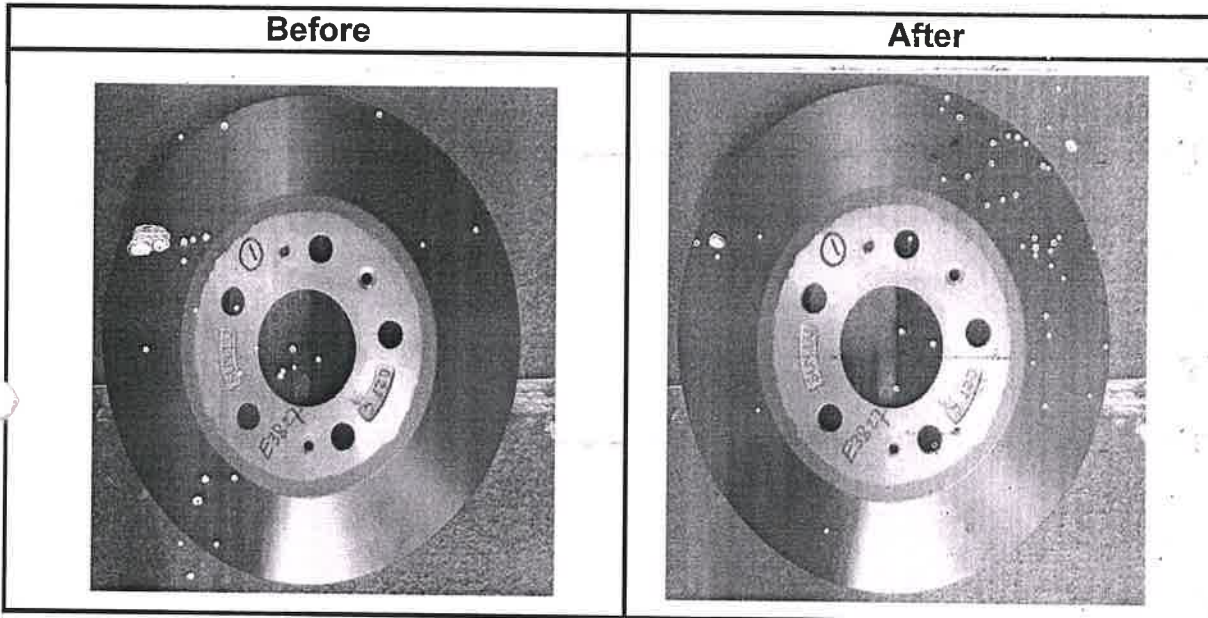
Customer Name
M/s. Sunil Industries
F - 2, MIDC, Gokul Shirgaon,
Kolhapur .

Test Report No.- E 3827
Date- 16.08.2022

Your Ref. - Challan No. - 986
Sample Description- Brake Drum

Date - 06.08.2022
Part No-0602AAb00330N

The above sample has been tested and result are as below.



For VCK Foundry Technology

Signature
SAR

Signature
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/s Budhale & Budhale (Unit No -01)
1328/3 , Y.P. Powar Nagar
Opp Hutatma Park Kolhapur -416012

Test Report No.- E 4255

Date- 16.08.2022

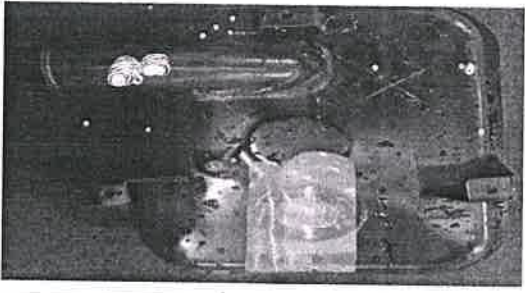
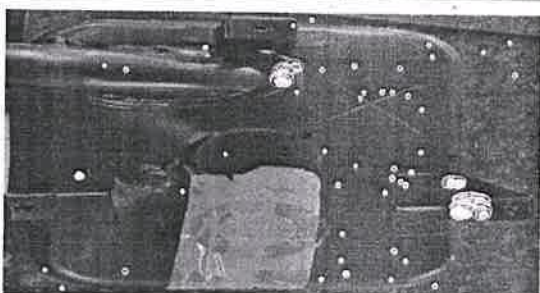
Your Ref. - Challan No.- 384

Date- 05.08.2022

Sample Description- Fuel Tank 643776

Grade - 2888 / LT

The above sample has been tested and result are as below.

Salt Spray Corrosion Test	
Salt Spray Solution- 5 % NaCl	pH - 6.82 (6.5- 7.5)
Temp - 34 ⁰ C	RH - 99 %
Duration - 150 Hrs.	Fog Collection - 1.61 ml / Hour
Result	
Upto 24 Hrs	No red rust observed
Upto 48 Hrs	No red rust observed
Upto 72 Hrs	No red rust observed
Upto 96 Hrs	No red rust observed
Upto 120 Hrs	No red rust observed
Upto 144 Hrs	No red rust observed
Upto 150 Hrs	No red rust observed
After	Before
	

For VCK Foundry Technology

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Gnat Foundry Pvt.Ltd
Shiroli,MIDC.
Kolhapur .

Test Report No.- E 4589
Date - 19.08.2022

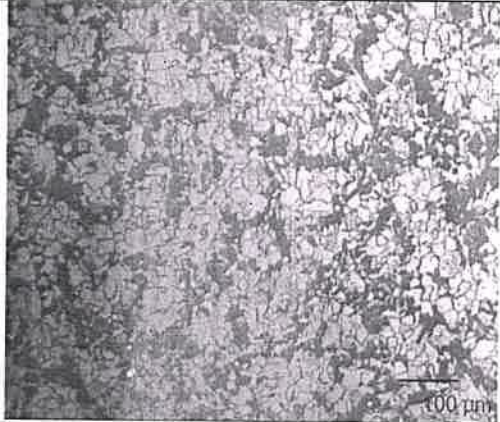
Your Ref. - Challan No.- 2223 - 001362

Date - 17.08.2022

Sample Description- V Rod Mtg Bkt
Grade - AHS 005 Gr 2

Part No - ISK 8207 / 8208

The above sample has been tested and results are as below

Microstructure	
	Etched 100 X (3% Nital)
	Microstructure of sample shows equiaxed grain ferrite (light etched) with pearlite at grain boundaries along with few segregated patches of pearlite (dark areas)

For VCK Foundry Technology

Signature
SAR

Signature
Authorised Signature



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/s Budhale & Budhale (Unit No - 01)
1328/3 , Y.P. Powar Nagar
Opp Hutatma Park Kolhapur -416012

Test Report No.- E 4796

Date- 25.08.2022

Your Ref. - Challan No.- 420

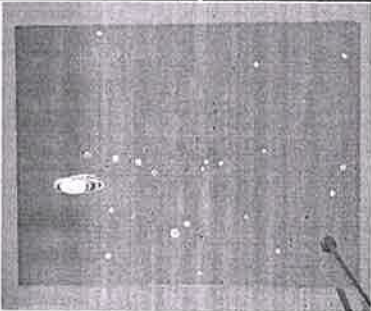
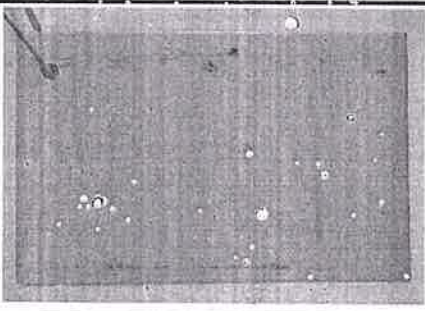
Date - 18.08.2022

Sample Description- Rear Engine Support Arm Assly.

Part No - 6A002028

Standard - Norma 2948

The above sample has been tested and result are as below.

Salt Spray Corrosion Test	
Salt Spray Solution- 5 % NaCl	pH - 6.87 (6.5- 7.5)
Temp - 32 ^o C	RH - 99 %
Duration - 150 Hrs.	Fog Collection - 1.61 ml / Hour
Result	
Upto 24 Hrs	No red spots & <1 mm red rust observed from line of incision
Upto 48 Hrs	No red spots & <1 mm red rust observed from line of incision
Upto 72 Hrs	No red spots & <1 mm red rust observed from line of incision
Upto 96 Hrs	No red spots & <1 mm red rust observed from line of incision
Upto 120 Hrs	No red spots & <1 mm red rust observed from line of incision
Upto 144 Hrs	No red spots & <1 mm red rust observed from line of incision
Upto 150 Hrs	No red spots & <1 mm red rust observed from line of incision
After	Before
	

For VCK Foundry Technolog

Sham
TSAR

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Shivshambho Alloys
D 30 / 2 ,M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 7080
Date - 26.08.2022

Your Ref. - Challan No.- RFN 260

Date - 25.08.2022

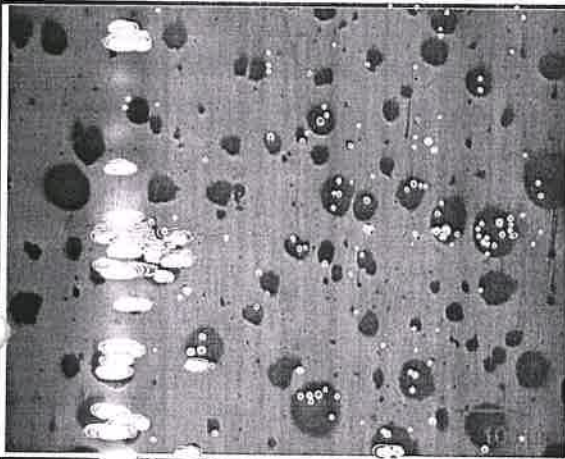
Sample Description- Tiller Handle

Heat No - SL 25

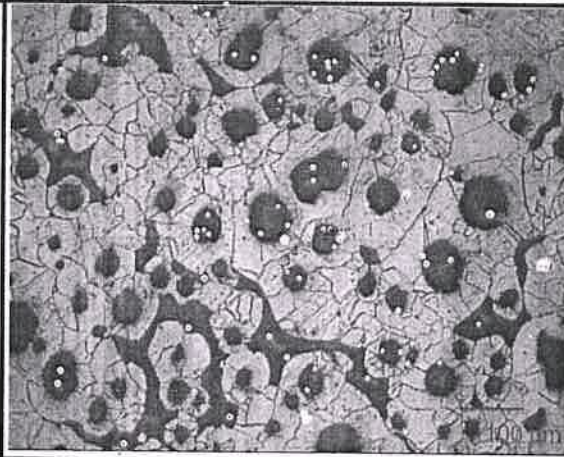
Grade- 448 / 12

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows well formed graphite of size 4 - 7, Nodularity 86 % & nodule count 170 per mm square.

Microstructure of sample shows fine lamellar pearlite 25 % & nodules surrounded by free ferrite 75 % observed.

For VCK Foundry Technology

SAB
SAB

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur.



TEST REPORT

Bharat Auto Ind.
M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 7080
Date - 28.08.2022

Your Ref. - Challan No.- BH 260

Date - 25.08.2022

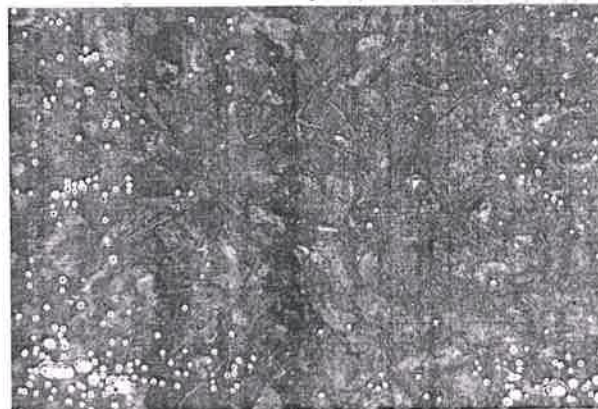
Sample Description- Escort Bearing Cap

Heat No - SL 25

Grade- FG 203

The above sample has been tested and results are as below

Volume Fraction Phase



Etched 100 X

Pearlitic matrix is observed with following percentage of Ferrite and Pearlite.
Secondary Phosphorus Eutectic is observed in Pearlitic matrix with following percentages.

For VCK Foundry Technology

Signature
SAR

Signature
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/09/2022

To,
Nodal Officer
Department of Foundry Technology,
Vivekanand College (Autonomous),
Kolhapur.

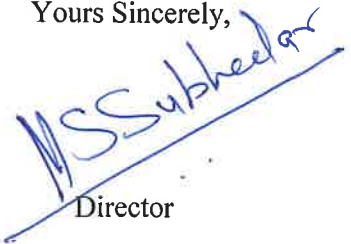
Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,


Director

Metasis Lab



TEST REPORT

M/S Raj Rajeshwari Founders
10/1090 , Rajrajeshwari Nagar,
Kolhapur .

Test Report No.- E 5214
Date - 03.09.2022

Your Ref. - Challan No.- 158

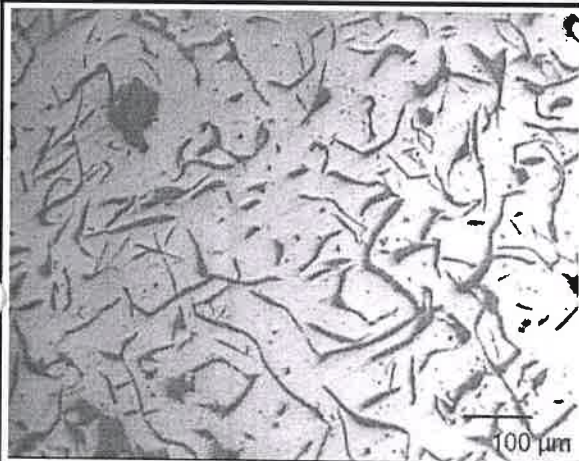
Date- 02.09.2022

Sample Description- Part Name- Fan Pulley
Grade- 20504

Part No- DVO.029.01.0.00

The above samples has been tested and result are as below.

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite flake size 4 - 7 , A Type 92 % & B Type 5 % as well as C Type 3 %



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 60 % & free ferrite 40 %

For VCK Foundry Technology

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/s Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur - 416 122

Test Report No.- E 5746
Date- 17.09.2022

Your Ref. - Challan No.- 396

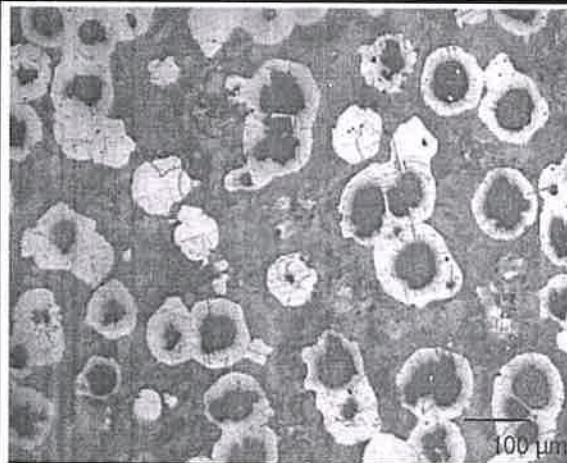
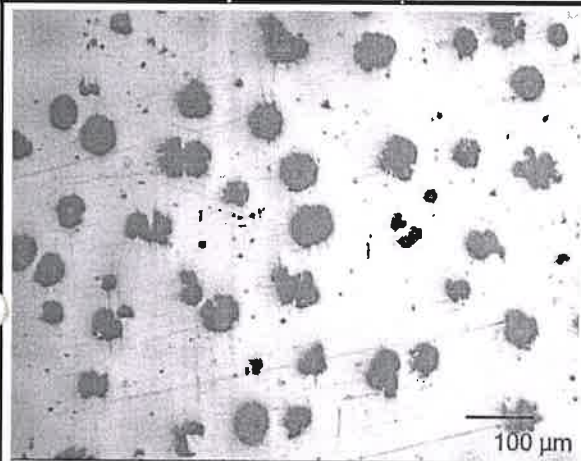
Date- 17.09.2022

Sample Description- Part Name- Ate Flange
Customer Name - Force Motors

Part No- 098080111145

The above samples has been tested and result are as below.

Microstructure



Unetched 100 X

Etched 100 X

Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 70 % & nodule count 140 per mm square

Microstructure of sample shows fine lamellar pearlite 60 % & free ferrite 40 %

For VCK Foundry Technology

Shrinivas
SAS

Josh
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/s Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur - 416 122

Test Report No.- E 6040
Date- 24.09.2022

Your Ref. - Challan No.- RFN 369
Sample Description- Intermediate Flange

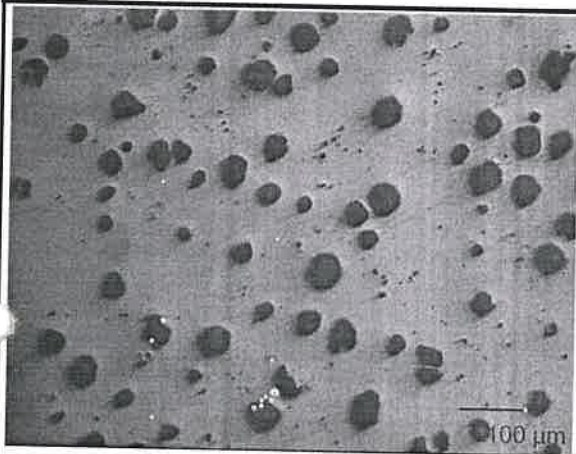
Date- 24.09.2022
Part No - 098080111145

Grade- 500 / 7

Customer - Force Motors

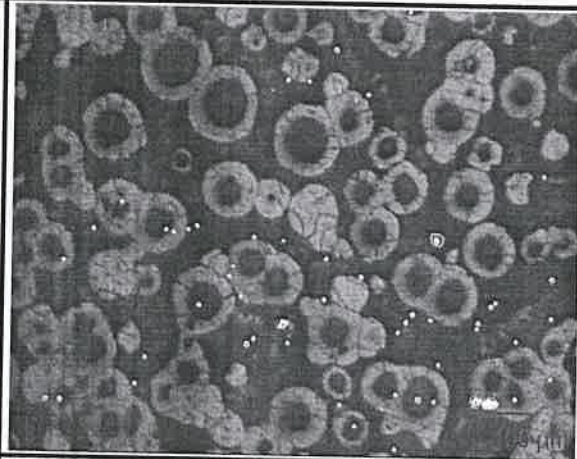
The above samples has been tested and result are as below.

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 88 % & nodule count 220 per mm square



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 55 % & nodules surrounded by free ferrite 45 %

For VCK Foundry Technology

Signature
SAS

Signature
Authorised Signature

Nodar Under
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Gangadhar Alloy Pvt. Ltd.
M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 7080
Date - 21.09.2022

Your Ref. - Challan No.- GA 520

Date - 20.09.2022

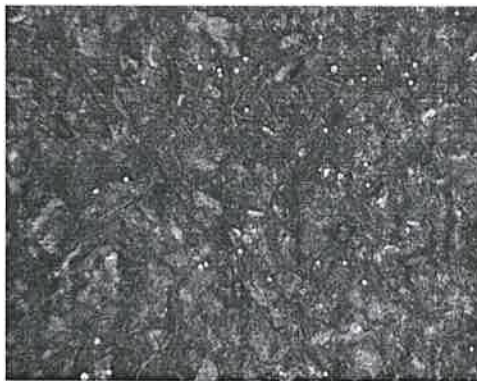
Sample Description- Cap

Heat No - BH 15

Grade- FG 260

The above sample has been tested and results are as below

Volume Fraction Phase



Etched 100 X

Pearlitic matrix is observed with following percentage of Ferrite and Pearlite.
Ternary Phosphorus Eutectic is observed in Pearlitic matrix with following percentages.

For VCK Foundry Technology

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

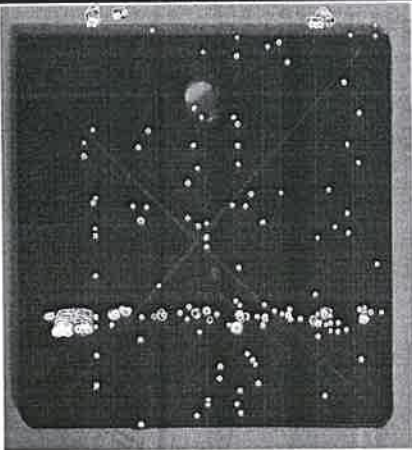
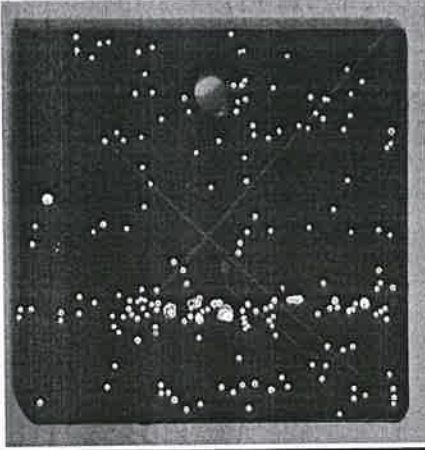
M/S Gangadhar Alloy Pvt. Ltd.
C-15, MIDC , Shirol, Kolhapur

Test Report No.- F 5560
Date - 26.09.2023

Your Ref. - Challan No.- RFN 285
Sample Description- Cover Protective

Date- 22.09.2023
Part No - 3648774 / 3648776

The above sample has been tested and result are as below.

Salt Spray Corrosion Test			
Salt Spray Solution- 5 % NaCl	pH	- 6.82 (6.5- 7.5)	
Temp - 35 ⁰ C	RH	- 99 %	
Duration - 768 Hrs.	Fog Collection	- 1.61 ml / Hour	
Result			
After		Before	
			

For VCK Foundry Technology

Signature
SATS

Signature
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Gangadhar Alloy Pvt. Ltd.
C-15, MIDC , Shirol,
Kolhapur

Test Report No.- F 5560
Date - 26.09.2023

Your Ref. - Challan No.- RFN 285
Sample Description- Cover Protective

Date- 22.09.2023
Part No - 3648774 / 3648776

The above sample has been tested and result are as below.

Salt Spray Corrosion Test	
Salt Spray Solution- 5 % NaCl	pH - 6.82 (6.5- 7.5)
Temp - 35 ⁰ C	RH - 99 %
Duration - 768 Hrs.	Fog Collection - 1.61 ml / Hour
Result	
Upto 408 Hrs	No red rust observed
Upto 432 Hrs	No red rust observed
Upto 456 Hrs	No red rust observed
Upto 480 Hrs	No red rust observed
Upto 504 Hrs	No red rust observed
Upto 528 Hrs	No red rust observed
Upto 552 Hrs	No red rust observed
Upto 576 Hrs	No red rust observed
Upto 600 Hrs	No red rust observed
Upto 624 Hrs	No red rust observed
Upto 648 Hrs	No red rust observed
Upto 672 Hrs	No red rust observed
Upto 696 Hrs	No red rust observed
Upto 720 Hrs	No red rust observed
Upto 744 Hrs	No red rust observed
Upto 768 Hrs	No red rust observed

For VCK Foundry Technology

[Handwritten Signature]
SPT

[Handwritten Signature]
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/S Netmech Founders PVT.LTD
Plot No. 28, Laxmi Co - Op , Industrial Estate,
Hatkanangale, Kolhapur 416 103

Test Report No.- FS 37
Date- 26.09.2022

Your Ref. - Challan No.- 33

Date - 26.09.2022

Sample Description- C.P.C.

Batch No - 24.09.2022

Supplier - Enpro Ent.

The above samples has been tested and result are as below.

Test Results			
Test	Specified		Observed
% of Fixed Carbon	80 % Min.		98.75%
V. M. Content	0.01 - 1.0 %		0.75%
Ash Content	0.01 - 1.0 %		0.5%

For VCK Foundry Technology

Signature
S.A.S.

Signature

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/S Auto Founders
Shree Laxmi Co.Op.Industrial Estate Ltd.
Hatkanangale- 416109.

Test Report No.- E 6167
Date- 30.09.2022

Your Ref. - Challan No.- 1317

Date- 29.09.2022

Sample Description- Inler 39462

Grade - FG 200

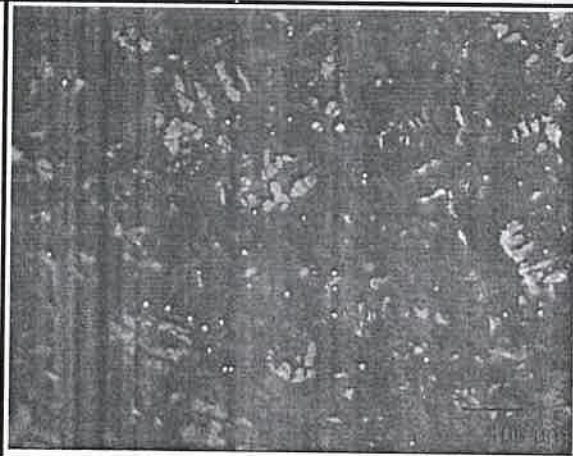
The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite flake size 3 - 7 , A Type 80 % & B Type 10 % as well as D + E Type 10 %



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 90 % & free ferrite 10 %

For VCK Foundry Technology

Signature
SATS

Signature

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/10/2022

To,
Nodal Officer
Department of Foundry Technology,
Vivekanand College (Autonomous),
Kolhapur.

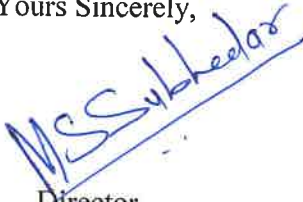
Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,


Director

Metasis Lab



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/S Ask Engineering
D - 53, MIDC , Gokul Shirgaon
Kolhapur-416234

Test Report No.- F 6025
Date- 08.10.2023

Your Ref. - Challan No.- RFN 243

Date - 08.10.2023

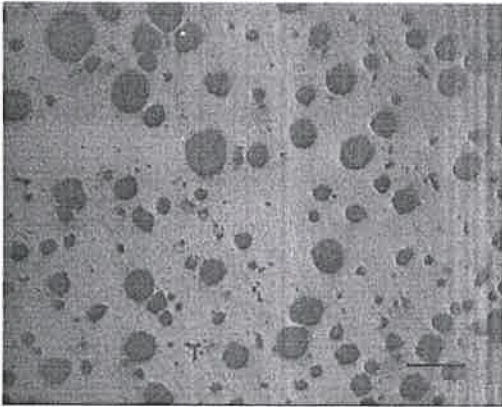
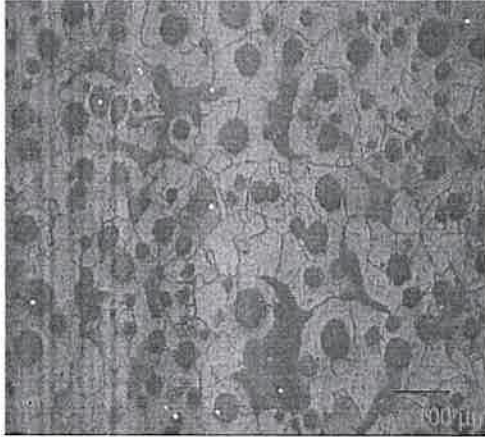
Sample Description- Part Name- Sliding Sleeve

Part No - 041200007

Heat Code- 10 K 23

Grade - 420 / 12

The above sample has been tested and results are as below

Microstructure	
	
Unetched 100 X	Etched 100 X
Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 89 % & nodule count 280 per mm square	Microstructure of sample shows fine lamellar pearlite 10 % & free ferrite 90 %

For VCK Foundry Technology

Shamir
SAB

Joshi
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/s Budhale & Budhale (Unit No - 04)
A 2 , MIDC, Gokul Shirgaon ,
Kolhapur .

Test Report No.- F 6022
Date - 19.10.2023

Your Ref. - Challan No.- 342

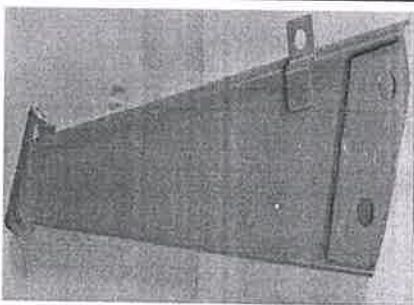
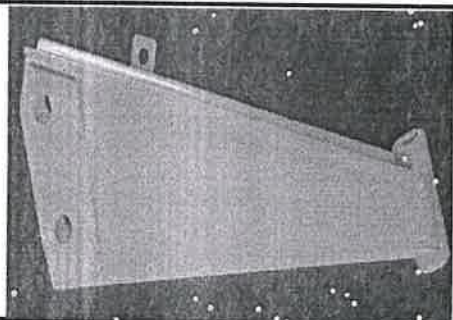
Date - 06.10.2023

Sample Description- Rear Engine Support Arm Assly

Grade - Norma / Standard 2947

Part No - 6A002028

The above sample has been tested and result are as below.

Salt Spray Corrosion Test	
Salt Spray Solution- 5 % NaCl	pH - 6.82 (6.5- 7.5)
Temp - 32 ^o C	RH - 99 %
Duration - 150 Hrs.	Fog Collection - 1.61 ml / Hour
Result	
Upto 24 Hrs	No red rust observed
Upto 48 Hrs	No red rust observed
Upto 72 Hrs	No red rust observed
Upto 96 Hrs	No red rust observed
Upto 120 Hrs	No red rust observed
Upto 144 Hrs	No red rust observed
Upto 150 Hrs	No red rust observed
After	Before
	

For VCK Foundry Technology

Shrinivas
SATS

Josh
Authorised Signature

Woban...

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/s Manugraph India LTD.
Unit No :- 1 M.I.D.C ,
Shiroli , Kolhapur - 416 122 .

Test Report No.- F 6430-1
Date - 20.10.2023

Your Ref. - Challan No. - TST 227116

Date - 19.10.2023

Sample Description - Dia - 180 mm (Normalised), Axle No - 1 (SRK 49)

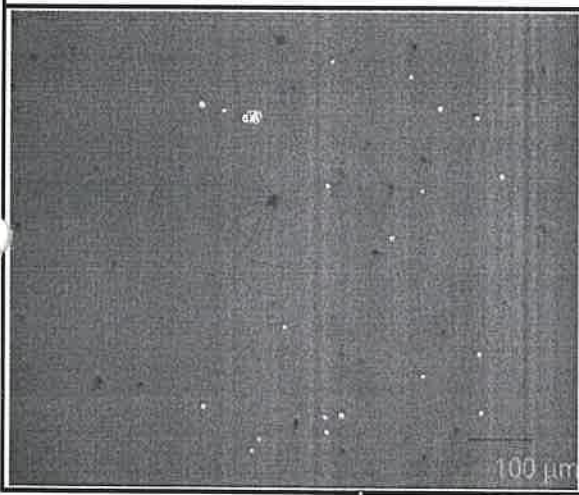
M/s - Somnath Rakesh Kumar

Grade - En 8

The above sample has been tested and results are as below

Inclusion Rating

Inclusion Rating			
Magnification 100 X			
Type	Thin	Thick	
A	1.0	-	
B	1.0	-	
C	0.5	-	
D	2.5	1.0	



For VCK Foundry Technology

Signature
SATS

Signature

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/s Manugraph India LTD.
Unit No :- 1 M.I.D.C ,
Shiroli , Kolhapur - 416 122 .

Test Report No.- F 6432-1
Date - 20.10.2023

Your Ref. - Challan No. - TST 227116

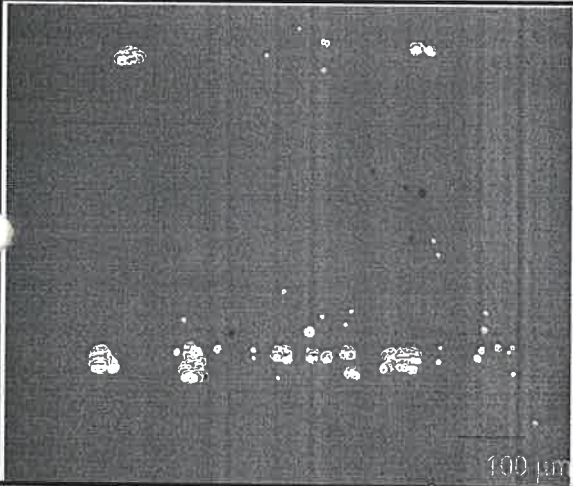
Date - 19.10.2023

Sample Description - Dia - 190 mm (Normalised), Axle No - 2 (SRK 49)

M/s - Somnati Rakesh Kumar

Grade - En 8

The above sample has been tested and results are as below

Inclusion Rating			
	Inclusion Rating		
	Magnification 100 X		
	Type	Thin	Thick
	A	1.0	-
	B	1.5	-
C	0.5	-	
D	0.5	1.0	

For VCK Foundry Technology

Signature
SATS

Signature
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/s Budhale & Budhale (Unit No - 04)
A 2 , MIDC, Gokul Shirgaon ,
Kolhapur .

Test Report No.- F 6023
Date- 29.10.2023

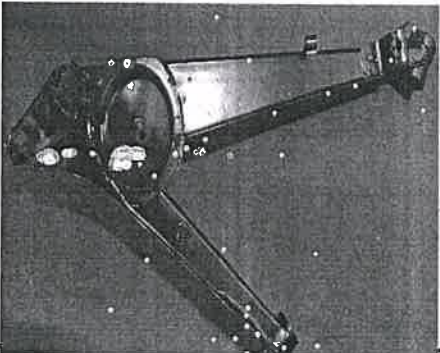
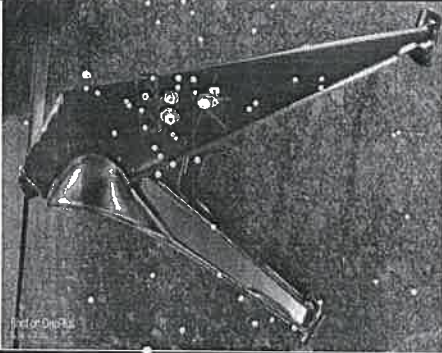
Your Ref. - Challan No.- 342

Date - 06.10.2023

Sample Description- Triangle Assly Pax - LH

Grade - Norma ST 2947

The above sample has been tested and result are as below.

Salt Spray Corrosion Test	
Salt Spray Solution- 5 % NaCl	pH - 6.82 (6.5- 7.5)
Temp - 32 ⁰ C	RH - 99 %
Duration - 500 Hrs.	Fog Collection - 1.61 ml / Hour
Result	
Upto 408 Hrs	No red rust observed
Upto 432 Hrs	No red rust observed
Upto 456 Hrs	No red rust observed
Upto 480 Hrs	No red rust observed
Upto 500 Hrs	No red rust observed
After	Before
	

For VCK Foundry Technology

Signature
SATK

Signature
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/s Budhale & Budhale (Unit No - 04)
A 2 , MIDC, Gokul Shirgaon ,
Kolhapur .

Test Report No.- F 6023
Date- 29.10.2023

Your Ref. - Challan No.- 342

Date - 06.10.2023

Sample Description- Triangle Assly Pax - LH

Grade - Norma ST 2947

The above sample has been tested and result are as below.

Salt Spray Corrosion Test	
Salt Spray Solution- 5 % NaCl	pH - 6.82 (6.5- 7.5)
Temp - 32 ^o C	RH - 99 %
Duration - 500 Hrs.	Fog Collection - 1.61 ml / Hour
Result	
Upto 24 Hrs	No red rust observed
Upto 48 Hrs	No red rust observed
Upto 72 Hrs	No red rust observed
Upto 96 Hrs	No red rust observed
Upto 120 Hrs	No red rust observed
Upto 144 Hrs	No red rust observed
Upto 168 Hrs	No red rust observed
Upto 192 Hrs	No red rust observed
Upto 216 Hrs	No red rust observed
Upto 240 Hrs	No red rust observed
Upto 264 Hrs	No red rust observed
Upto 288 Hrs	No red rust observed
Upto 312 Hrs	No red rust observed
Upto 336 Hrs	No red rust observed
Upto 360 Hrs	No red rust observed
Upto 384 Hrs	No red rust observed

For VCK Foundry Technology

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/11/2022

To,
Nodal Officer
Department of Foundry Technology,
Vivekanand College (Autonomous),
Kolhapur.

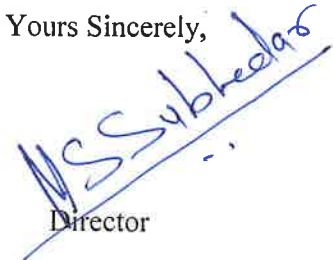
Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,



Director

Metasis Lab



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/S Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur

Test Report No.- F 6810
Date- 02.11.2023

Your Ref. - Challan No.- KI 459

Date - 02.11.2023

Sample Description-Internal Ring Gear (160 Teeth)

The above sample has been tested and results are as below

Sr.No	Hardness In HRC	
1	Middle of Teeth	58
	Start end of Teeth	47
	Below root Dia	16
2	Middle of Teeth	51
	Below root Dia	28
3	Middle of Teeth	54
	Below root Dia	28

For VCK Foundry Technology

Ahmer
SAS

Joshi

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur

Test Report No.- F 6810
Date- 02.11.2023

Your Ref. - Challan No.-

Date - 02.11.2023

Sample Description- Ring Gear (160 Teeth)

The above sample has been tested and results are as below

Sr.No	Hardness In HRC	
1	Middle of Teeth	57
	Start end of Teeth	47
	Below root Dia	14
2	Middle of Teeth	52
	Below root Dia	28
3	Middle of Teeth	55
	Below root Dia	30

For VCK Foundry Technology

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit,
Vivekanand College, Kolhapur



TEST REPORT

M/S Model Infra Corporation P. Ltd
P.No - L- 13,Verna Industrial Estate,
Verna Goa.

Test Report No.- E 7060-1
Date - 05.11.2022

Your Ref. - Challan No.- GA/PTS/2223/03376

Date - 03.11.2022

Sample Description - Sample For Hardness

Item No - RM 0103005004

The above sample has been tested and results are as below

Hardness		
Plate No	Thickness	Vickers Hardness HV 1 Kg
PB 5618	6 mm	260 - 262
PA 5618	6 mm	268 - 270
PB 5619	6 mm	253 - 255
PA 5619	6 mm	262 - 264
PA 5621	6 mm	251 - 253
PB 5621	6 mm	260 - 262
P 8126	6 mm	256 - 258
P 8127	6 mm	256 - 258
P 8128	6 mm	266 - 268



P 8129	6 mm	252 - 254
P 8130	6 mm	260 - 262
P 8553	5 mm	250 - 252
P 8572	5 mm	253 - 255
P 8575	5 mm	250 - 252
P 8645	5 mm	259 - 261

For VCK Foundry Technology

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name

M/s. Rocket Engineering Corporation Pvt.Ltd.

Plot No.- D-19, MIDC, Shirol,
Kolhapur .

Test Report No.- F 7022

Date- 08.11.2023

Your Ref. - Challan No.- 700

Date- 07.11.2023

Sample Description- Micro Sample

The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite flake size 5 - 7 , A Type 20 % & D + E Type 80 % .



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 87 % & free ferrite 13 %

For VCK Foundry Technology

Ahmed
SAB

Joshi
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/S Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur

Test Report No.- F 7120
Date- 09.11.2023

Your Ref. - Challan No.- 3070

Date - 09.11.2023

Sample Description- 124 No Disc

The above sample has been tested and results are as below

Hardness In BHN
(3000 Kg x 10 mm ball)
187 - 189

For VCK Foundry Technology

Shrinivas
SFB

Joshi

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



**VCK FOUNDRY
TECHNOLOGY**

TEST REPORT

M/S Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur

Test Report No.- F 7120
Date- 09.11.2023

Your Ref. - Challan No.- 3070

Date - 09.11.2023

Sample Description- 125 No Disc

The above sample has been tested and results are as below

Hardness In BHN
(3000 Kg x 10 mm ball)
187 - 189

For VCK Foundry Technology

Shrinani
SAB

Jash

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/s Manugraph India LTD.
Unit No :- 1 M.I.D.C ,
Shiroli , Kolhapur - 416 122 .

Test Report No.- E 7450
Date - 18.11.2022

Your Ref. - Challan No. - TST 219800

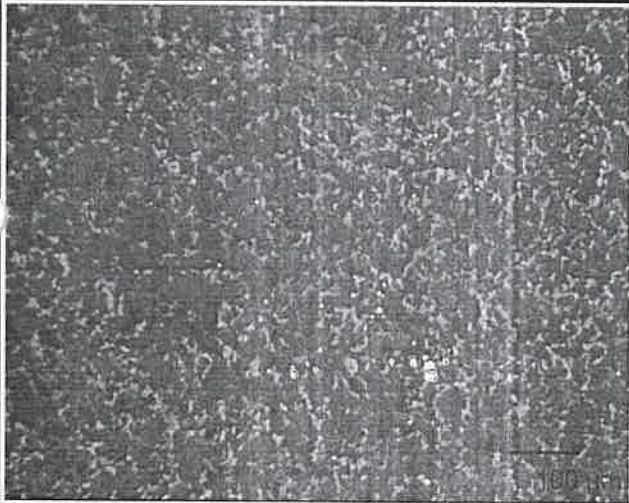
Date - 13.11.2022

Sample Description - Dia 180 x 1210 mm , (Normalised) ,Axle No - 1, SRK 40

M/s - Somnath Rakesh Kumar

Grade - En 8

The above sample has been tested and results are as below

Microstructure	
	Etched 100 X (3% Nital)
	Microstructure of sample shows ferrite at grain boundaries in pearlite matrix with traces of coarse patches of pearlite
	ASTM No - 5 , 7

For VCK Foundry Technology

S. K. Manu
S.K.M.

S. K. Manu
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/s Manugraph India LTD.
Unit No :- 1 M.I.D.C ,
Shiroli , Kolhapur - 416 122 .

Test Report No.- E 7450-1
Date - 18.11.2022

Your Ref. - Challan No. - TST 219800

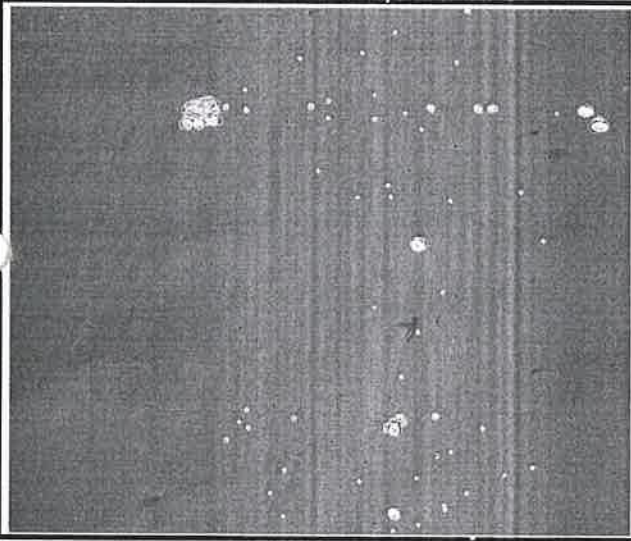
Date - 13.11.2022

Sample Description - Dia 180 x 1210 mm , (Normalised) ,Axle No - 1, SRK 40

M/s - Somnath Rakesh Kumar

Grade - En 8

The above sample has been tested and results are as below

Inclusion Rating			
	Inclusion Rating		
	Magnification 100 X		
	Type	Thin	Thick
	A	1.5	0.5
	B	1	-
	C	-	-
D	1.5	-	

For VCK Foundry Technology

Signature
SATS

Signature
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

Customer Name
M/s. Rocket Engineering Corporation Pvt.Ltd.
Plot No.- D-19, MIDC, Shirol, Kolhapur .

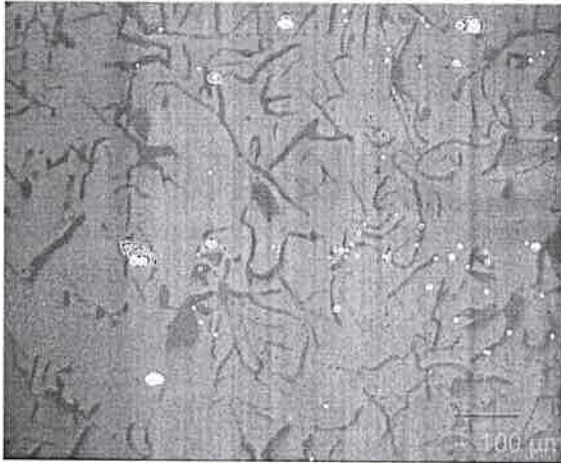
Test Report No.- F 7263
Date- 22.11.2023

Your Ref. - Challan No.- 722
Sample Description- Cyl Liner

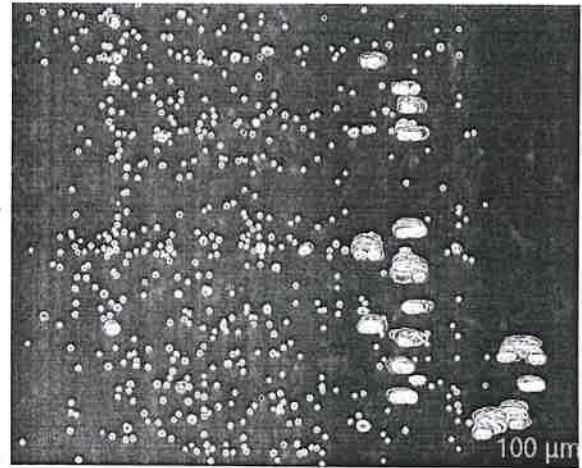
Date- 16.11.2023

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows well formed graphite flake size 4 - 7 , A Type 60 % & D + E Type 40 % .

Microstructure of sample shows fine lamellar pearlite 98 % & free ferrite 2 %

For VCK Foundry Techno

Sham
SAB

Joshi
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

M/s Tirupati Casting
568 A/p Ambapwadi Road, Ambap ,
Tal- Hatkanangale, Dist- Kolhapur.

Test Report No.- F 7442
Date- 25.11.2023

Your Ref. - Challan No.- RFN 483

Date- 25.11.2023

Sample Description- Micro Sample - 2

Grade - FG 260

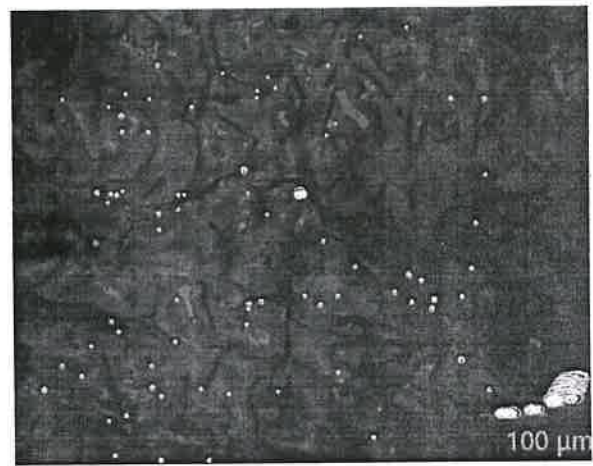
The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite flake size 4 - 7 , A Type 80 % & D + E Type 20 % .



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 97 % & free ferrite 2 % as well as steadite 1 %

For VCK Foundry Technology

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

M/s Tirupati Casting
568 A/p Ambapwadi Road, Ambap ,
Tal- Hatkanangale, Dist- Kolhapur.

Test Report No.- F 7441
Date- 25.11.2023

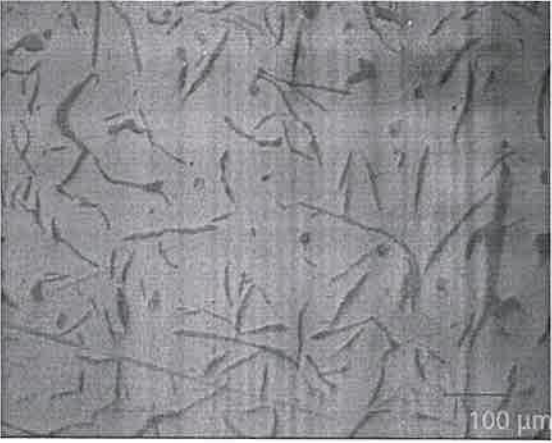
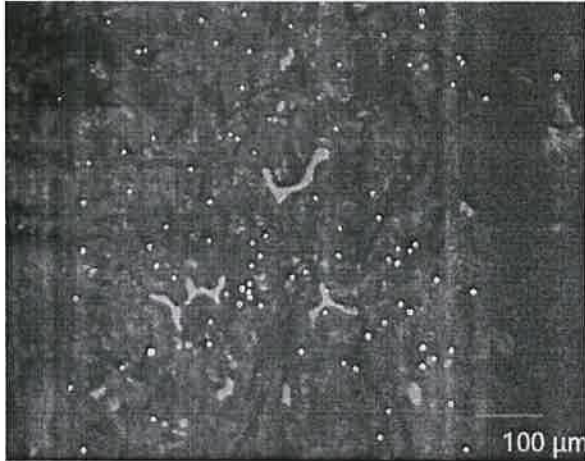
Your Ref. - Challan No.- RFN 483

Date- 25.11.2023

Sample Description- Micro Sample - 1

Grade - FG 260

The above sample has been tested and results are as below

Microstructure	
	
Unetched 100 X	Etched 100 X
Microstructure of sample shows well formed graphite flake size 4 - 7 , A Type 98 % & C Type 2 % .	Microstructure of sample shows fine lamellar pearlite 97 % & free ferrite 2 % as well as steadite 1 %

For VCK Foundry Technology

Shankar
SMB

Doshi
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/s. S & P Enterprises
578/1 A Near Saroj Iron Casting,
MIDC, Shirol, Kolhapur - 416 122

Test Report No.- F 7519
Date- 28.11.2023

Your Ref. - Challan No.- 191

Date- 28.11.2023

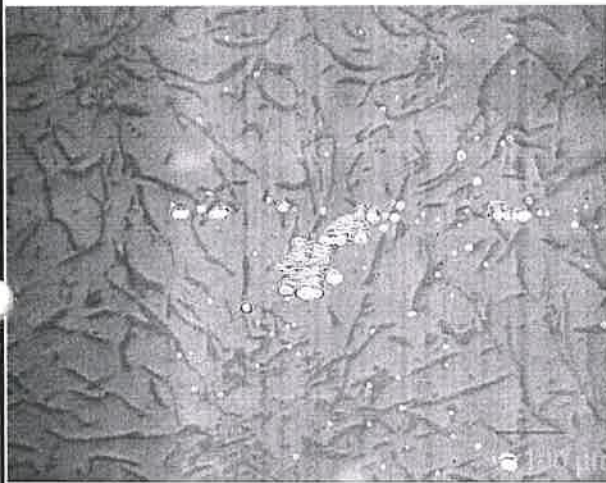
Sample Description - 1) Casing 32 - 160

Grade - FG 260

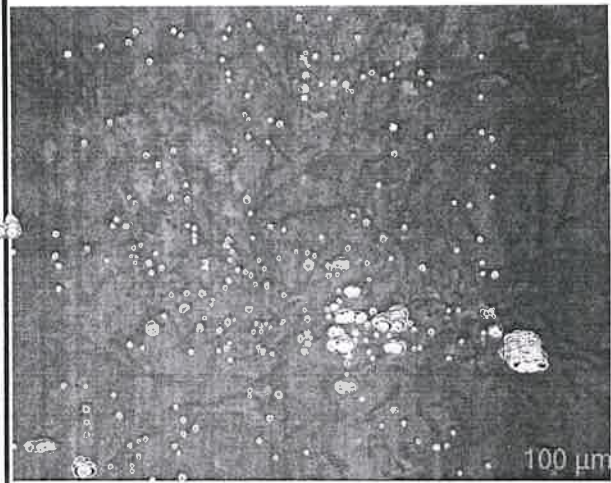
Heat Code - 25 K 23

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows well formed graphite flake size 4 - 6 , A Type 95 % & B Type 5 %

Microstructure of sample shows fine lamellar pearlite 97 % & free ferrite 3 %

For VCK Foundry Technology

SATB

Jash
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

Customer Name
M/S- Matoshri Industries
Mangaraychivadi , Tal- Hatkangale,
Kolhapur

Test Report No.- F 7555
Date - 30.11.2023

Your Ref - Challan No.- 26

Date - 29.11.2023

Sample Description- 1) Fly E10 / BS 6 / E 20 / 5525

Grade - FG 260

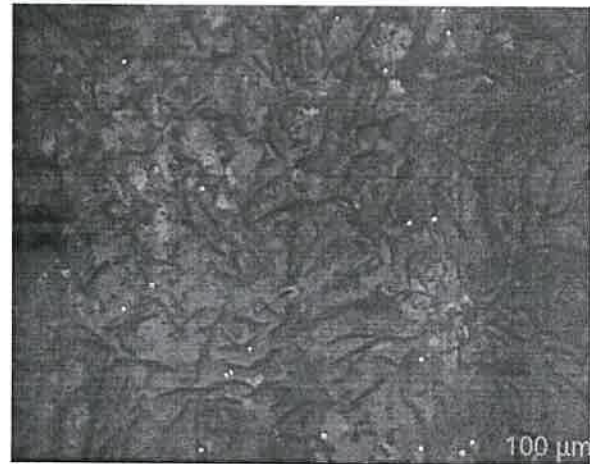
Heat No - 21 L 23

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows well formed
graphite flake size 4 - 6 , A Type 95 % &

B Type 5 %

Microstructure of sample shows fine lamellar
pearlite 97 % & free ferrite 3 %

For VCK Foundry Technology

Shamir
SAB

Joshi
Authorised Signature

Head Office
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/S Adi Engineering
Plot No - 54, Sctor - O, Phase IV,
Yadrav 416 145

Test Report No.- F 7594-1
Date - 30.11.2023

Your Ref. - Challan No.- MO 689

Date - 26.11.2023

Sample Description - 1) Cylinder - 63224

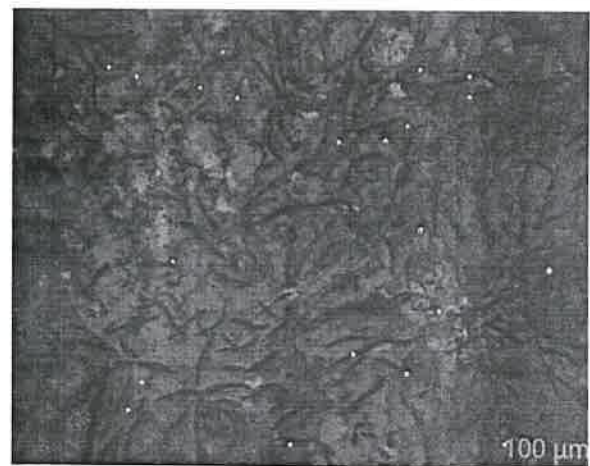
Grade - EN - GJL - 250

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows well formed
graphite flake size 4 - 6 , A Type 95 % &
B Type 5 %

Microstructure of sample shows fine lamellar
pearlite 97 % & free ferrite 3 %

For VCK Foundry Technology

Signature
SAB

Signature
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

Customer Name
M/S Adi Engineering
Plot No - 54, Sctor - O, Phase IV,
Yadrav 416 145

Test Report No.- F 7595-1
Date - 30.11.2023

Your Ref. - Challan No.- MO 689

Date - 26.11.2023

Sample Description - 1) Cylinder - 63777

Grade - EN - GJL - 250

The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite flake size 4 - 7 , A Type 96 % & B Type 2 % as well as C Type 2 %



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 98 % & free ferrite 2 %

For VCK Foundry Technology

Signature
SAB

Signature
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Asha Fine Metallics
C -3/12, MIDC , Five Star ,Kagal,
Kolhapur - 416 122 .

Test Report No.- E 7940
Date - 30.11.2022

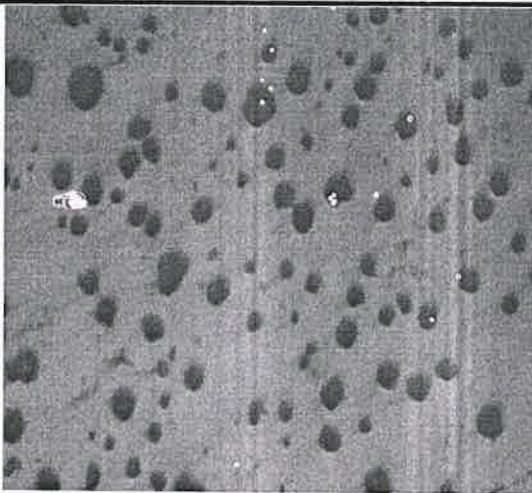
Your Ref. - Challan No. -

Date - 28.11.2022

Sample Description- Part Name- Hose Guide
Heat No - RM 28 **P. Date - 28.11.2022**
The above sample has been tested and results are as below

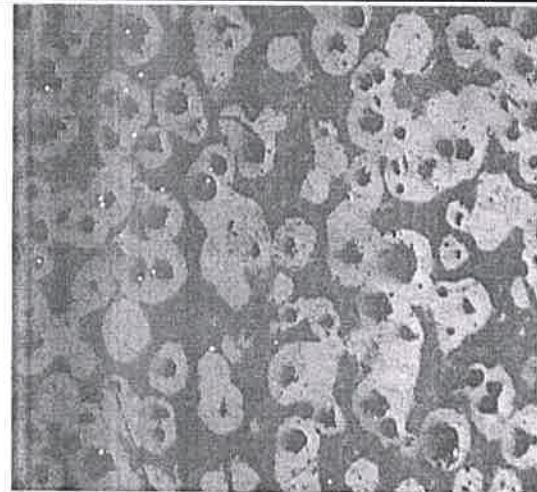
Part No - 0187
Grade - HC 40

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 95 % & nodule count 290 per mm square.



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 55 % & nodules surrounded by free ferrite 45 % observed .

For VCK Foundry Technology

Shrinani
SAB

Joshi
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/12/2022

To,
Nodal Officer
Department of Foundry Technology,
Vivekanand College (Autonomous),
Kolhapur.

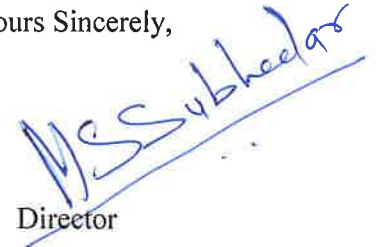
Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,


Director

Metasis Lab



TEST REPORT

M/S Ask Engineering
D - 53, MIDC , Gokul Shirgaon
Kolhapur-416234

Test Report No.- E 8240
Date- 11.12.2022

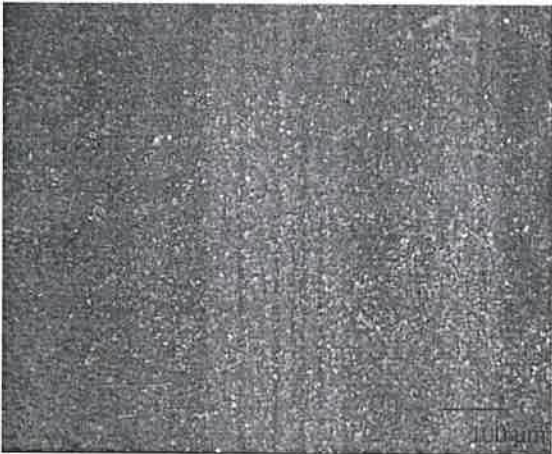
Your Ref. - Challan No.- 1048

Date - 08.12.2022

Sample Description - Push Handle VM

Grade - C 45

The above sample has been tested and results are as below

Microstructure	
	Etched 100 X (3% Nital)
	Microstructure of sample shows fine tempered martensite matrix with traces of free ferrite
	< 5 % quenched & tempered structure

For VCK Foundry Technology

Sham
SAB

Yash

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/s GSI Engineering
H-6/7 ,M.I.D.C Gokul shirgaon
Dist Kolhapur 416234

Test Report No.- E 8245
Date - 13.12.2022

Your Ref. - Challan No.- 798

Date - 09.12.2022

Sample Description- Logement
Grade - FG 260

Part No - 2108018.a

The above sample has been tested and results are as below

Sample	Hardness in BHN (500 Kg x 5 mm ball)
1	102-104
2	103-104
3	101-103
4	102-104
5	104-105
6	101-103
7	102-105
8	102-105
9	100-103
10	102-104

For VCK Foundry Technology

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/s GSI Engineering
H-6/7 ,M.I.D.C Gokul shirgaon
Dist Kolhapur 416234

Test Report No.- E 8371
Date - 14.12.2022

Your Ref. - Challan No.- 800

Date - 11.12.2022

Sample Description- Sabot MM Renf - 568534

Grade - G 20 Mn 5

Part No - 1503001.b

The above sample has been tested and results are as below

Sample	Hardness in BHN (3000 Kg x 10 mm ball)
1	145-148
2	143-145
3	145-149
4	143-146
5	145-150
6	143-147
7	145-151
8	143-148
9	145-152
10	143-149

For VCK Foundry Technology

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/S Versatile Industries
Plot No.- 57, Machhe Industrial Estate,
Machhe , Belgaum - 14

Test Report No.- FS 31
Date - 21.12.2022

Your Ref. - Challan No.- 008

Date - 17.12.2022

Sample Description- C.P.C

The above samples has been tested and result are as below.

Test Results			
A)	% of Fixed Carbon :	98.4 %	B) V. M. Content : 1.1 %
C)	Ash Content :	0.5 %	

For VCK Foundry Technology

Authorised Signature

Prachi
Noual Director
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/S Netmech Founders PVT.LTD
Plot No. 28, Laxmi Co - Op , Industrial Estate,
Hatkanangale, Kolhapur 416 103

Test Report No.- FS 37

Date- 26.12.2022

Your Ref. - Challan No.- 33

Date - 16.12.2022

Sample Description- C.P.C.
Supplier - Enpro Ent.

Batch No - 06.12.2022

The above samples has been tested and result are as below.

Test Results			
Test	Specified		Observed
% of Fixed Carbon	80 % Min.		98.75%
V. M. Content	0.01 - 1.0 %		0.75%
Ash Content	0.01 - 1.0 %		0.5%

For VCK Foundry Technology

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/s Manugraph India LTD.
Unit No :- 1 M.I.D.C ,
Shiroli , Kolhapur - 416 122 .

Test Report No.- E 8897
Date - 28.12.2022

Your Ref. - Challan No. - TST 221097

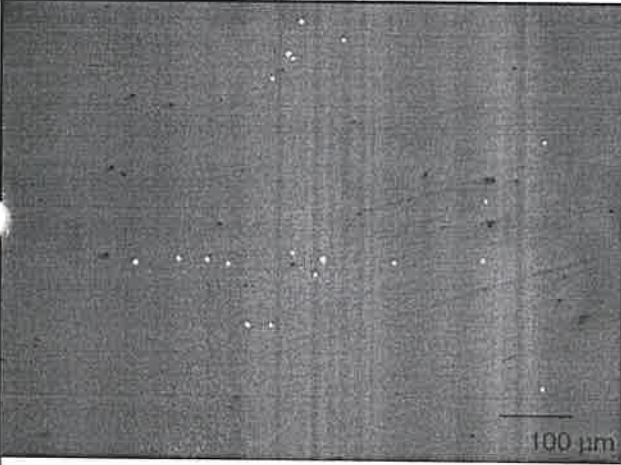
Date - 27.12.2022

Sample Description - Axle , (SRK 41), Normalised

M/s - Somnath Rakesh Kumar

Grade - En 8

The above sample has been tested and results are as below

Inclusion Rating			
	Inclusion Rating		
	Magnification 100 X		
	Type	Thin	Thick
	A	1.5	-
	B	1	-
C	-	-	
D	2	-	

For VCK Foundry Technology




Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 02/01/2023

To,

Nodal Officer

Department of Foundry Technology,

Vivekanand College (Autonomous),

Kolhapur.

Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,

Director

Metasis Lab



TEST REPORT

Customer Name
M/S Tri tech Metals Pvt. Ltd
603/B, MIDC , Shirolī,
Kolhapur

Test Report No.- F 8510
Date- 02.01.2023

Your Ref. - Challan No.- 525

Date- 02.01.2023

Sample Description - HET - GSBC 792

The above sample has been tested and results are as below

Sample No	Hardness In BHN
	(750 Kg x 5 mm ball)
1	187 - 188
2	186 - 188

For VCK Foundry Technology

Authorised Signature

Nagar Chitambar
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

M/S Shivshambho Alloys
D 30 / 2 ,M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 6839
Date - 03.01.2023

Your Ref. - Challan No.- RFN 338
Sample Description- Spicot Cap

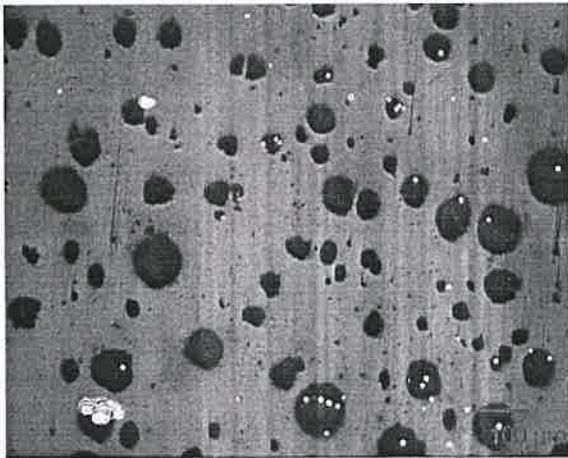
Date - 02.01.2023
Part No - 800058

Grade- 450 / 12

Heat No - SL 27

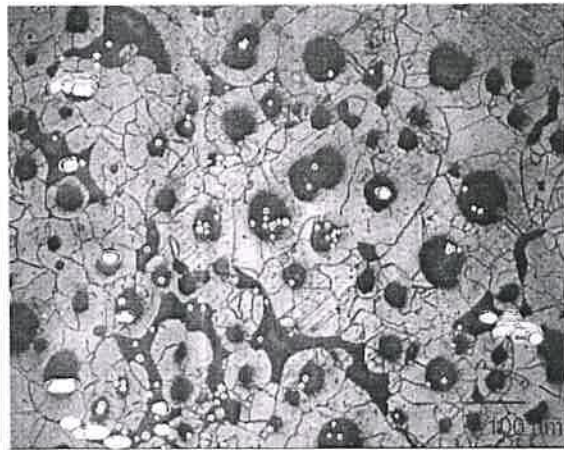
The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 84 % & nodule count 210 per mm square.



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 25 % & nodules surrounded by free ferrite 75 % observed .

For VCK Foundry Technology

Signature
SAB

Signature
Authorised Signature
Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

M/S Shivshambho Alloys
D 30 / 2 ,M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 7080
Date - 09.01.2023

Your Ref. - Challan No.- RFN 260

Date - 08.01.2023

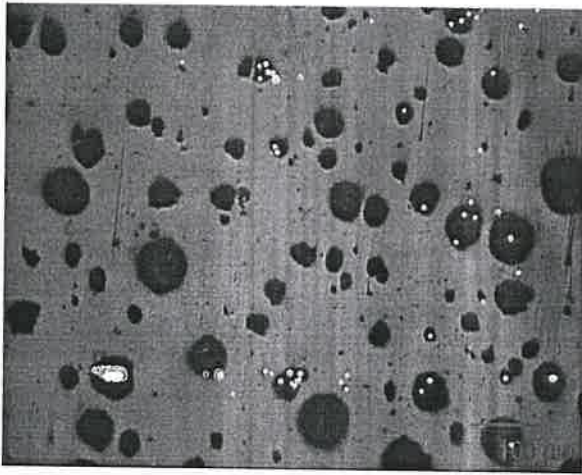
Sample Description- Tiller Handle

Heat No - SL 28

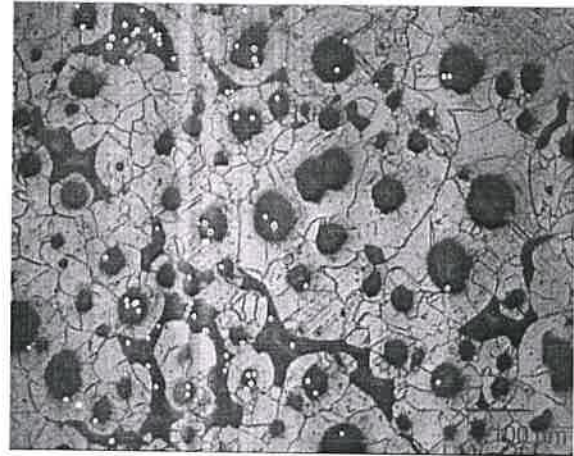
Grade- 448 / 12

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 86 % & nodule count 170 per mm square.

Microstructure of sample shows fine lamellar pearlite 25 % & nodules surrounded by free ferrite 75 % observed .

For VCK Foundry Technology

Shivshambho
SAS

Shivshambho

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Shivshambho Alloys
D 30 / 2 ,M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 7176
Date - 09.01.2023

Your Ref. - Challan No.- RFN 259

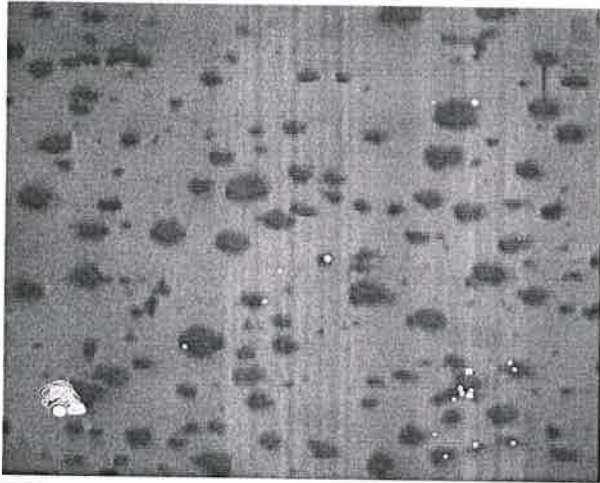
Date - 08.01.2023

Sample Description- Tiller Handle
Grade- 448 / 12

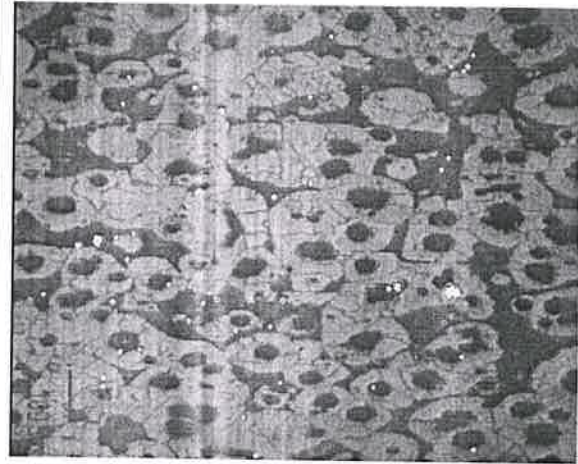
Heat No - SL 28

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 85 % & nodule count 190 per mm square.

Microstructure of sample shows fine lamellar pearlite 27 % & free ferrite 73 %

For VCK Foundry Technology

Authorised Signature
Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Model Infra Corporation P. Ltd
P.No - L- 13,Verna Industrial Estate,
Verna Goa.

Test Report No.- J 25663
Date - 25.01.2023

Your Ref. - Challan No.- GA/PST/2223/01028

Date - 21.01.2023

Sample Description - Sample For Hardness

Item No - RM 0103005028

The above sample has been tested and results are as below

Hardness

Disc No	Thickness	Vickers Hardness HV 1 Kg
2210	3 mm	256-258
2211	5 mm	260-262
2212	8 mm	250-252
2213	4 mm	252-254
2214	3 mm	270-272
2215	5 mm	240-242
2216	8 mm	268-270
2217	4 mm	248-250
2218	3 mm	254-256
2219	5 mm	256-259
2220	8 mm	260-263
2221	4 mm	250-253
2222	3 mm	252-255
2223	5 mm	270-273
2224	8 mm	240-243

For VCK Foundry Technology

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/02/2023

To,

Nodal Officer

Department of Foundry Technology,

Vivekanand College (Autonomous),

Kolhapur.

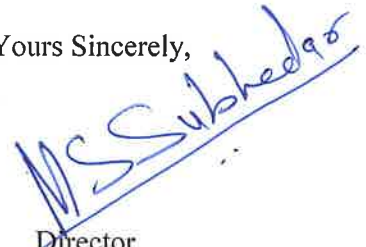
Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,


Director

Metasis Lab



TEST REPORT

M/S Shivshambho Alloys
D 30 / 2 ,M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 2213
Date - 03.02.2023

Your Ref. - Challan No.- RFN 2223

Date - 02.02.2023

Sample Description- Spicot Cap

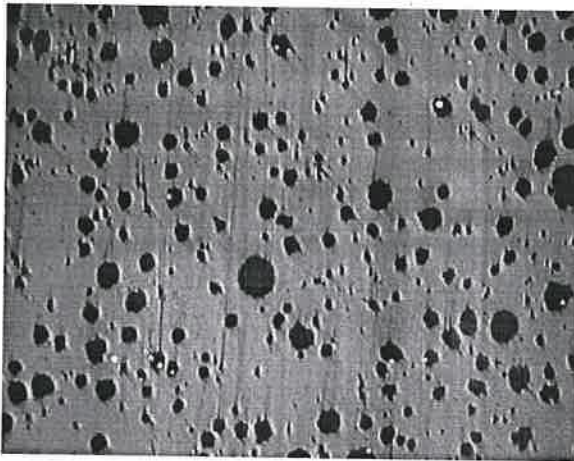
Part No - 800055

Grade- 450 / 12

Heat No - SL 29

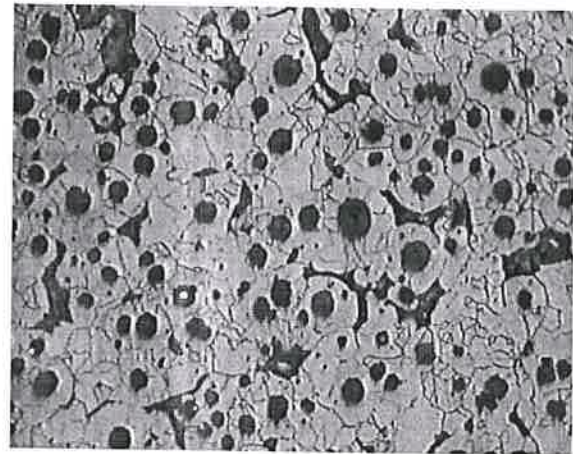
The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite nodules of size 4 - 6, Nodularity 88 % & nodule count 260 per mm square .



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 22 % & free ferrite 78 % .

For VCK Foundry Technology

Shivshambho
SMB

Josh
Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

M/S Shivshambho Alloys
D 30 / 2 ,M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 6824
Date - 03.02.2023

Your Ref. - Challan No.- RFN 225

Date - 02.02.2023

Sample Description- Spicot Cap

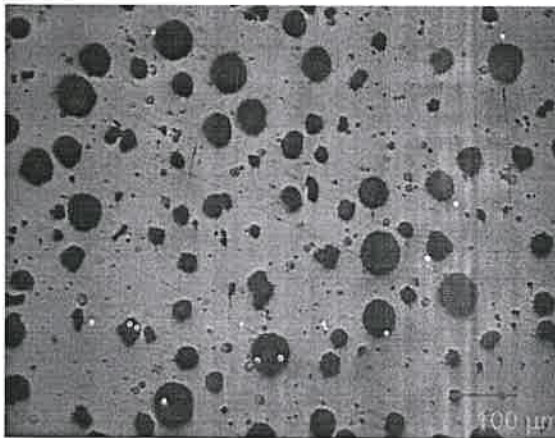
Part No - 800055

Grade- 450 / 12

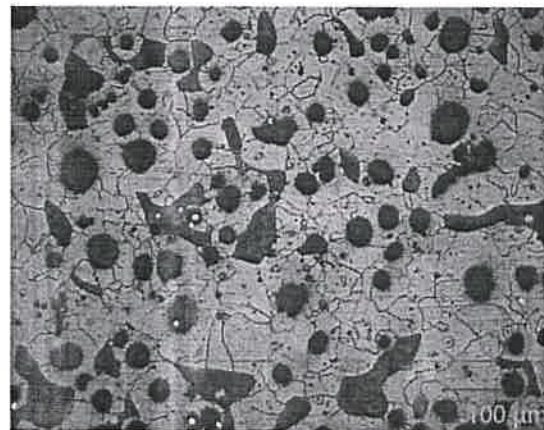
Heat No - SL 04

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows graphite nodules of size 4 - 7, Nodularity 85 % & nodule count 210 per mm square

Microstructure of sample shows fine lamellar pearlite 25 % & nodules surrounded by free ferrite 75 %

For VCK Foundry Technology

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

M/S Shivshambho Alloys
D 30 / 2 ,M.I.D.C. , Shirol
Kolhapur- 416122

Test Report No.- F 6821
Date - 03.02.2023

Your Ref. - Challan No.- RFN 226

Date - 02.02.2023

Sample Description- Spicot Cap

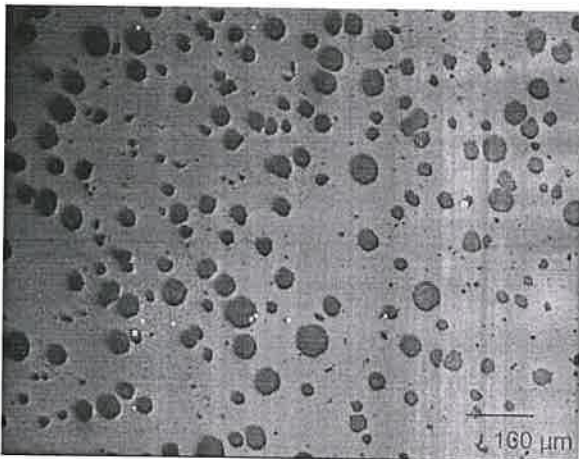
Part No - 800055

Grade- 450 / 12

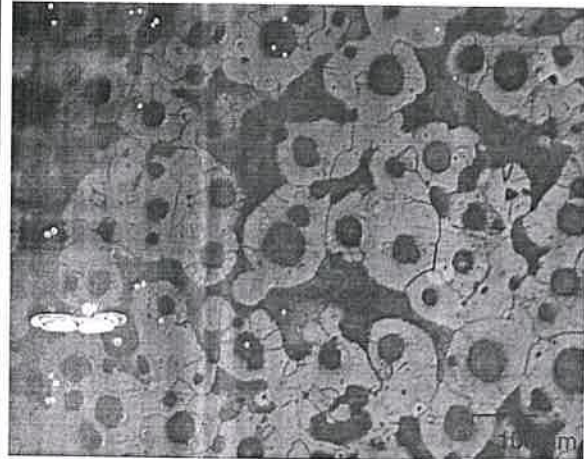
Heat No - SL 06

The above sample has been tested and results are as below

Microstructure



Unetched 100 X



Etched 100 X

Microstructure of sample shows graphite nodules of size 4 - 6, Nodularity 90 % & nodule count 250 per mm square

Microstructure of sample shows fine lamellar pearlite 28 % & nodules surrounded by free ferrite 72 %

For VCK Foundry Technology

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur

Test Report No.- F 6810
Date- 11.02.2023

Your Ref. - Challan No.- KI 4569

Date - 11.02.2023

Sample Description- Ring Gear (160 Teeth)

The above sample has been tested and results are as below

Hardness		
Sr. No	Hardness in HRC	
1	Middle of Teeth	58
	Start end of Teeth	46
	Below root Dia	15
2	Middle of Teeth	51
	Below root Dia	29
3	Middle of Teeth	54
	Below root Dia	32
4	Middle of Teeth	56
	Below root Dia	31
5	Middle of Teeth	54
	Below root Dia	32



**VCK FOUNDRY
TECHNOLOGY**

6	Middle of Teeth	54
	Below root Dia	30
7	Middle of Teeth	58
	Below root Dia	35
8	Middle of Teeth	54
	Below root Dia	36
9	Middle of Teeth	59
	Below root Dia	38
10	Middle of Teeth	56
	Below root Dia	31

For VCK Foundry Technology


SAK



Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



VCK FOUNDRY TECHNOLOGY

TEST REPORT

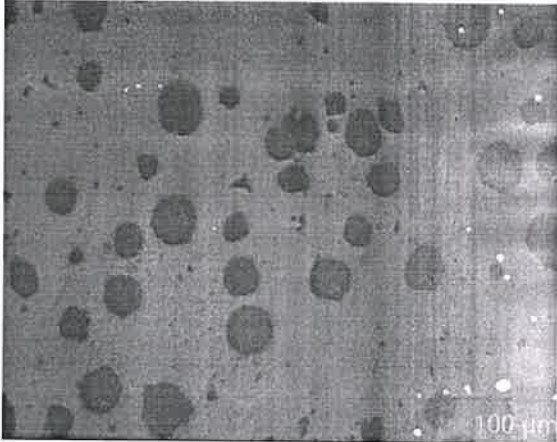
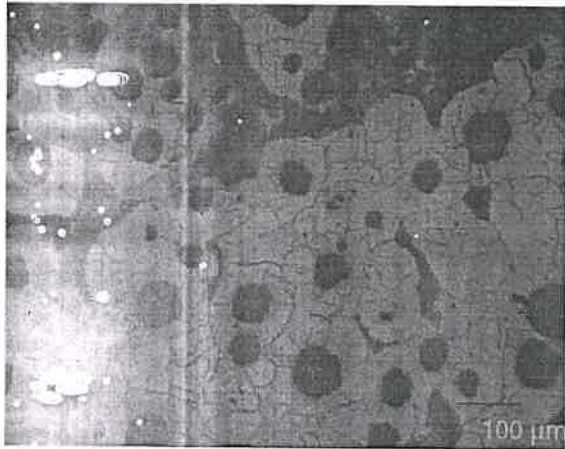
M/S Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur

Test Report No.- F 7277
Date- 22.02.2023

Your Ref. - Challan No.- 3102
Sample Description- 40001 Hub

Date - 22.02.2023

The above sample has been tested and results are as below

Microstructure	
	
Unetched 100 X	Etched 100 X
Microstructure of sample shows well formed graphite nodules of size 4 - 7, Nodularity 70 % & nodule count 135 per mm square	Microstructure of sample shows fine lamellar pearlite 15 % & free ferrite 85 %

For VCK Foundry Technology

Shani
SAB

Joshi
Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/03/2023

To,
Nodal Officer
Department of Foundry Technology,
Vivekanand College (Autonomous),
Kolhapur.

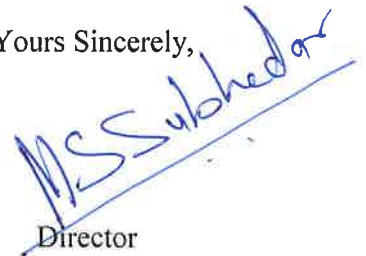
Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,



Director

Metasis Lab



TEST REPORT

Customer Name
M/S Adi Engineering
Plot No - 54, Sctor - O, Phase IV,
Yadrav 416 145

Test Report No.- F 7596-1
Date - 30.03.2023

Your Ref. - Challan No.- MO 689
Sample Description - 1) Cylinder - 63994

Date - 26.03.2023
Grade - EN - GJL - 250

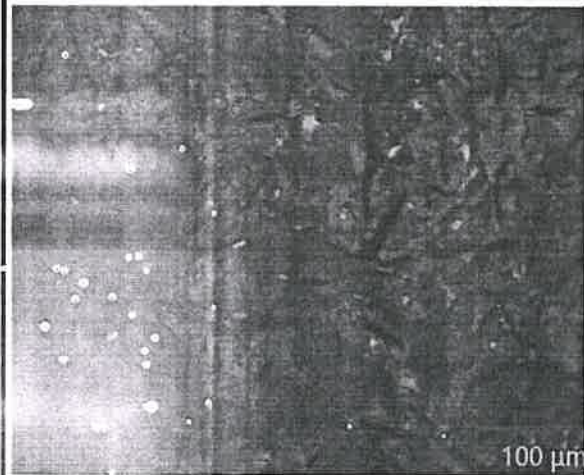
The above sample has been tested and results are as below

Microstructure



Unetched 100 X

Microstructure of sample shows well formed graphite flake size 4 - 7 , A Type 98 % & C Type 2 % .



Etched 100 X

Microstructure of sample shows fine lamellar pearlite 97 % & free ferrite 3 %

For VCK Foundry Technology

Authorised Signature

Nodal Officer
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Model Infra Corporation P. Ltd
P.No - L- 13,Verna Industrial Estate,
Verna Goa.

Test Report No.- J 26364
Date - 10.03.2023

Your Ref. - Challan No.- GA/PTS/2223/02026

Date - 05.03.2023

Sample Description - Sample For Hardness

Item No - RM 0103009036

The above sample has been tested and results are as below

Hardness

Disc No	Thickness	Vickers Hardness HV 1 Kg
2210	3 mm	270-272
2211	5 mm	240-242
2212	8 mm	268-270
2213	4 mm	248-250
2214	3 mm	256-259
2215	5 mm	260-263
2216	8 mm	250-253
2217	4 mm	256-258
2218	3 mm	260-262
2219	5 mm	250-252
2220	8 mm	252-254
2221	4 mm	260-263
2222	3 mm	250-253
2223	5 mm	252-255
2224	8 mm	270-273

For VCK Foundry Technology

S.A.R.

Authorised Signature

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



METASIS LAB

Chemical, Physical, Metallurgical Testing of Metals, Noise, Vibration,
Surface Roughness, Salt Spray, PMI. Test, Lux Measurement

B-13, Opp. Kolhapur Axle Ltd., MIDC Shirol, Kolhapur - 416122. Cell : +9922437590, 7721995959,
Email : kolhapurmetasys@gmail.com, metasyslab@rediffmail.com, Website : www.metaltestinglab.net

Date: 01/04/2023

To,

Nodal Officer

Department of Foundry Technology,

Vivekanand College (Autonomous),

Kolhapur.

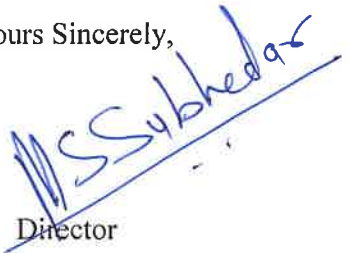
Subject: To provide collaborated testing and consultancy services.

Respected sir,

We operate a metallurgical testing and consultancy facility located in MIDC Shirol, Kolhapur and we have collaboration with your Foundry Technology department. We are in need of metallurgical testing services from your end. Given the highly beneficial testing setup established by the Foundry Technology department for industrial purposes, we kindly request your support in facilitating the required testing. Enclosed with this correspondence, you will find a list of samples and detailed specifications for the testing requirements. Your cooperation in this matter is greatly appreciated.

Thanking you,

Yours Sincerely,


Director

Metasis Lab



TEST REPORT

Customer Name

M/S Shri Sai Traders

Top, 1135 Patil Ind Estate, Mahadik Colony,
Tal- Hatkangale, Dist.- Kolhapur.

Test Report No.- FS 23

Date - 04.04.2023

Your Ref. - Challan No.- 54

Date - 04.04.2023

Sample Description- C.P.C, Sample, (Kathani)

The above samples has been tested and result are as below.

Test Results				
A)	% of Fixed Carbon :	98 %	B) V. M. Content :	1 %
C)	Ash Content :	1 %		

For VCK Foundry Technology

Shri Sai Traders

Shri Sai

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

M/S Kaneri Industries U 2
D - 51 , MIDC. Shirol ,
Kolhapur

Test Report No.- F 6969
Date- 15.04.2023

Your Ref. - Challan No.- KI 5554

Date - 10.04.2023

Sample Description- Ring Gear (160 Teeth)

The above sample has been tested and results are as below

Hardness		
Sr. No	Hardness in HRC	
1	Middle of Teeth	51
	Start end of Teeth	54
	Below root Dia	15
2	Middle of Teeth	56
	Below root Dia	32
3	Middle of Teeth	54
	Below root Dia	31
4	Middle of Teeth	59
	Below root Dia	32
5	Middle of Teeth	58
	Below root Dia	34



VCK FOUNDRY
TECHNOLOGY

6	Middle of Teeth	55
	Below root Dia	31
7	Middle of Teeth	55
	Below root Dia	35
8	Middle of Teeth	59
	Below root Dia	36
9	Middle of Teeth	54
	Below root Dia	38
10	Middle of Teeth	55
	Below root Dia	31

Shrinivas
SAG

For VCK Foundry Technology

Shrinivas

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/S Netmech Founders PVT.LTD
Plot No. 28, Laxmi Co - Op , Industrial Estate,
Hatkanangale, Kolhapur 416 103

Test Report No.- FS 55
Date- 26.04.2023

Your Ref. - Challan No.- 73

Date - 16.04.2023

Sample Description- C.P.C.
Supplier - Enpro Ent.

Batch No - 06.04.2023

The above samples has been tested and result are as below.

Test Results		
Test	Specified	Observed
% of Fixed Carbon	80 % Min.	98.75%
V. M. Content	0.01 - 1.0 %	0.75%
Ash Content	0.01 - 1.0 %	0.5%

Shrinivas
SAB

For VCK Foundry Technology

Shrinivas

Authorised Signature

Nodal Officer

B.Voc. & Community College Unit
Vivekanand College, Kolhapur



TEST REPORT

Customer Name
M/S Versatile Industries
Plot No.- 57, Machhe Industrial Estate,
Machhe , Belgaum - 14

Test Report No.- FS 54
Date - 21.04.2023

Your Ref. - Challan No.- 101

Date - 17.04.2023

Sample Description- C.P.C

The above samples has been tested and result are as below.

Test Results			
A)	% of Fixed Carbon :	98.4 %	B) V. M. Content : 1.1 %
C)	Ash Content :	0.5 %	

Signature
SAR

For VCK Foundry Technology

Signature

Authorised Signature
B.Voc. & Community College Unit
Vivekanand College, Kolhapur



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