

TEST CERTIFICATE

TC NO: 03688

Invoice No.:

VSP/03688/25-26

Truck No.:

GJ.27.TG.2819

Customer :

STEELLOYS INDIA PVT.LTD

Date Of Issue:

Saturday, January 17, 2026

PROCESS ROUTE:

IF+CCM+RM

P.O No.:

P.O.Date:

MATERIAL DETAIL

Sr No.	Product	Grade	Size	Heat No.	Qty.	Nos.**	Length	Colour Code	Supply Condition
1	ROUND BARS	SAE 8620	40	VCS-25V1541-004	2.800 MT	46	20.5'	YELLOW+BLUE STRIP	AS ROLLED
2	ROUND BARS	SAE 8620	45	VCS-25V1545-004	2.420 MT	31	20.3'	YELLOW+BLUE STRIP	AS ROLLED
3	ROUND BARS	SAE 8620	56	VCS-26V0011-004	2.870 MT	25	19.3'	YELLOW+BLUE STRIP	AS ROLLED
4	ROUND BARS	SAE 8620	65	VCS-25V1499-004	4.730 MT	30	19.6'	YELLOW+BLUE STRIP	AS ROLLED
5	ROUND BARS	SAE 8620	71	VCS-25V1507-004	2.060 MT	12	18'	YELLOW+BLUE STRIP	AS ROLLED
6	ROUND BARS	SAE 8620	75	VCS-02I1-005	2.340 MT	12	18.5'	YELLOW+BLUE STRIP	AS ROLLED
7	ROUND BARS	SAE 8620	80	VCS-25V1270-004	2.020 MT	09	18.5'	YELLOW+BLUE STRIP	AS ROLLED
8	ROUND BARS	SAE 8620	53	VCS-25V1232-004	3.080 MT	32	18.3'	YELLOW+BLUE STRIP	AS ROLLED

CHEMICAL COMPOSITION

GRADE	—	%C	%Mn	%Si	%P	%S	%Cr	%Ni	%Cu	%Mo	%Al	%V	%Ti	%Pb
SAE 8620	MIN.	0.18	0.71	0.15	0.035 MAX	0.040 MAX	0.40	0.40	-	0.15	-	-	-	-
	MAX.	0.23	0.90	0.30			0.60	0.70	-	0.25	-	-	-	-
HEAT NO														
VCS-25V1541-004	ACTUAL	0.20	0.80	0.28	0.021	0.017	0.46	0.50	-	0.17				
VCS-25V1545-004	ACTUAL	0.20	0.78	0.27	0.017	0.024	0.50	0.47	-	0.17				
VCS-26V0011-004	ACTUAL	0.20	0.80	0.27	0.013	0.014	0.50	0.49	-	0.16				
VCS-25V1499-004	ACTUAL	0.20	0.82	0.27	0.022	0.013	0.51	0.44	-	0.19				
VCS-25V1507-004	ACTUAL	0.20	0.79	0.29	0.022	0.012	0.44	0.46	-	0.20				
VCS-02I1-005	ACTUAL	0.21	0.80	0.29	0.021	0.010	0.47	0.43	-	0.16				
VCS-25V1270-004	ACTUAL	0.20	0.80	0.26	0.020	0.015	0.52	0.45	-	0.16				
VCS-25V1232-004	ACTUAL	0.19	0.80	0.26	0.017	0.011	0.50	0.46	-	0.17				

PHYSICAL PROPERTIES

HEAT NO.	Hardness (BHN)	Y. S. (N/mm2)	UTS (N/mm2)	%Elong.	SIZE	QUALITY PROCESS	RESULTS
VCS-25V1541-004	184	413	652	20	40	Macro Etching (ASTM E 381)	BETTER THEN C2 R2 S2
VCS-25V1545-004	185	415	660	19	45	STEP DOWN TEST (IS 4075):	OK
VCS-26V0011-004	187	420	664	17	56	Spark & Spectral Test:	OK
VCS-25V1499-004	186	418	663	17	65	Surface Inspection:	OK
VCS-25V1507-004	187	421	665	17	71	Ultrasonic Test (IS 2417)	OK
VCS-02I1-005	189	422	670	16	75	Machine Straightend	OK
VCS-25V1270-004	192	424	675	16	80		
VCS-25V1232-004	186	420	664	18	53		

METALLURGICAL PROPERTIES

Requirement	MICRO STRUCTURE	REDUCTION RATIO	GRAIN SIZE ASTM E112 (IS 4748)	HEAT NO	INCLUSION RATING AS PER ASTM-E-45 (IS 4163)							
					A		B		C		D	
					T	H	T	H	T	H	T	H
ACTUAL	P+F	13.4:1	7.5-8.0	VCS-25V1541-004	1.0	0.5	1.5	0.5	1.5	0.5	1.0	1.0
ACTUAL	P+F	16:1	7.5-8.0	VCS-25V1545-004	1.0	1.5	1.0	1.5	1.0	1.5	1.0	1.5
ACTUAL	P+F	10.3:1	7.5-8.0	VCS-26V0011-004	1.0	1.0	1.5	1.0	1.5	1.0	1.0	0.50
ACTUAL	P+F	7.7:1	7.5-8.0	VCS-25V1499-004	1.0	0.5	1.0	1.5	1.0	1.5	1.5	1.0
ACTUAL	P+F	6.4:1	7.5-8.0	VCS-25V1507-004	1.0	1.5	0.5	1.0	1.5	1.0	1.0	1.5
ACTUAL	P+F	5.7:1	7.5-8.0	VCS-02I1-005	1.0	0.5	0.5	1.5	1.0	1.5	0.5	1.0
ACTUAL	P+F	10.5:1	7.5-8.0	VCS-25V1270-004	1.0	1.5	1.5	1.0	1.5	1.0	1.5	0.5
ACTUAL	P+F	11.6:1	7.5-8.0	VCS-25V1232-004	1.0	1.0	0.5	1.5	1.0	1.5	1.0	1.5

Remarks

Test certificate meets TDC Results based on sample testing

WE CERTIFY THAT CONTENTS OF THIS REPORT ARE CORRECT AND ACCURATE AND MEET THE REQUIREMENTS OF THE PURCHASE ORDER , TECHNICAL DELIVERY CONDITION, GENERAL STEEL REQUIREMENTS AND THE MATERIAL CERTIFICATION REQUIREMENTS

QUALITY OFFICER
VIVAN STEELS PVT.LTD.