

981

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9814 (DIA-40 MM) HNO-S-68	Unknown	Thursday, August 14, 2014	11:36:15 AM	Measured
Method Name	Method Version	Operator Name	Check Type	Check Status
Fe-30-MO		SARA SAE	None	Not Used
Grade Verification Name	Grade Verification Similarity	Correction Type	Type Corr Sample Name	Grade Search Name
	0	None		
Grade Search Similarity	Type	Status	Outlier Removal	
0	None	Not Used		

Sample Name
9814 (DIA-40 MM) HNO-S-68

Grade

	C Conc %	Si Conc %	Mn Conc %	P Conc %	S Conc %	Cr Conc %	Mo Conc %	Ni Conc %	Al Conc %	Co Conc %	Cu Conc %	Nb Conc %	Ti Conc %	V Conc %	W Conc %	Pb Conc %	Sn Conc %	As Conc %	Zr Conc %
1	0.090	0.075	0.50	0.027	0.033	0.059	<0.003	0.015	0.004	<0.005	0.023	<0.005	<0.0010	0.003	<0.040	<0.010	0.022	<0.005	<0.003
2	0.098	0.068	0.52	0.028	0.036	0.059	<0.003	0.011	0.003	<0.005	0.025	<0.005	<0.0010	0.005	<0.040	<0.010	0.026	<0.005	<0.003
3	0.081	0.077	0.48	0.038	0.036	0.054	<0.003	0.017	0.004	<0.005	0.023	<0.005	<0.0010	<0.002	<0.040	<0.010	0.021	<0.005	<0.003
4	0.076	0.060	0.44	0.040	0.037	0.055	<0.003	0.011	<0.003	<0.005	0.022	<0.005	<0.0010	<0.002	<0.040	<0.010	0.024	<0.005	<0.003
Rep	0.086	0.070	0.49	0.033	0.035	0.057	<0.003	0.013	0.003	<0.005	0.023	<0.005	<0.0010	0.003	<0.040	<0.010	0.023	<0.005	<0.003
Min Cal	0.006	0.005	0.004	0.003	0.002	0.005	0.003	0.005	0.003	0.005	0.002	0.005	<0.0010	0.002	<0.040	<0.010	0.023	<0.005	<0.003
Mean	0.086	0.070	0.49	0.033	0.035	0.057	<0.003	0.013	0.003	<0.0010	0.023	<0.006	<0.002	0.002	<0.070	<0.011	0.023	<0.0000	<0.002
Max Cal	3.00	5.04	18.12	0.18	0.30	36.00	10.20	55.2	6.24	21.60	7.44	3.60	3.60	12.00	7.32	0.13	0.27	0.13	0.19
	Ca Conc %	B Conc %	Fe Conc %																
1	0.001	<0.0005	99.1																
2	0.001	<0.0005	99.0																
3	0.003	0.0007	99.1																
4	0.0007	0.001	99.2																
Rep	0.001	0.0007	99.1																
Min Cal	0.0005	0.0005																	
Mean	0.001	0.0005	99.3																
Max Cal	0.016	0.025																	

Qualify in 1008 as per
Sec 26-615
Deputy

8/16/2014

Sample Results



SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.
Mobile : 98550-82559 E-mail : info@sharusteels.com & sales@sharusteels.com

QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT

F-QCD-03

ISO 9001 : 2008
Certified Company

18397

TEST CERTIFICATE

M/S. SARA SAE PRIVATE LIMITED DIVISION-II A-2 SARA INDUSTRIAL ESTATE LTD. CHAKRATA ROAD, SELAQUI RAMPUR DEHRADUN (UTTRAKHAND)	T.C. No. 0497 Invoice No. Truck No. PB23K/8410	Date 09-08-2014
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
SAE1008	40 MM	S-68	L/HT	ORANGE/ST/PINK	AS ROLLED	1.510 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-														
Max.	-														
Actual	0.09	0.32	0.021	0.029	0.07					0.024					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)		5/6		Gas content (ppm)	
	A		B		C		D		Decarb. (MM)				O ₂	
	T	H	T	H	T	H	T	H					N ₂	
STD MAX									Micro-Structure				H ₂	
ACTUAL	1.0		1.0		1.0		1.0							

MECHANICAL PROPERTIES							MACRO	ULTRASONIC TEST	MIX UP TEST
	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / Rb	OK		OK
Reqd.									
Actual						142			

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Regd.									
Actual									

Remarks :

Qualify in 1008 Grade
as per S&S 26-615
Deepali