



Sample Resi

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9393 (s-56)	Unknown	Saturday, April 19, 2014	3:47:35 PM	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	Grade			
9393 (s-56)				

	C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr
	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
2	0.070	0.050	0.35	0.013	0.019	0.059	<0.003	0.033	0.005	<0.005	0.042	<0.005	<0.0010	0.004	<0.040	<0.010	0.004	<0.005	<0.003
3	0.070	0.055	0.35	0.016	0.024	0.057	<0.003	0.035	0.006	<0.005	0.044	<0.005	<0.0010	<0.002	<0.040	<0.010	0.004	<0.005	<0.003
4	0.070	0.061	0.36	0.015	0.022	0.057	<0.003	0.034	0.011	<0.005	0.044	<0.005	<0.0010	<0.002	<0.040	<0.010	0.005	<0.005	<0.003
Rep	0.070	0.056	0.35	0.015	0.022	0.058	0.003	0.034	0.007	<0.005	0.043	<0.005	<0.0010	0.003	<0.040	<0.010	0.004	<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	0.002	0.005	0.003
Mean	0.070	0.056	0.35	0.015	0.022	0.058	<0.001	0.034	0.007	<0.005	0.043	<0.012	<0.005	0.002	<0.072	<0.002	0.004	<0.006	<0.000
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	B	Fe																	
Conc	Conc	Conc																	
%	%	%																	
2	0.0009	<0.0005	99.3																
3	0.0008	<0.0005	99.3																
4	0.0007	<0.0005	99.2																
Rep	0.0008	<0.0005	99.3																
Min Cal	0.0005	0.0005	99.4																
Mean	0.0008	<0.0003	99.4																
Max Cal	0.016	0.025																	

on in 1008 grade
Perpals

4/19/2014

Sample Results



SHARU STEELS (P) LTD.

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

QUALITY ASSURANCE DEPARTMENT METALLURGICAL TEST REPORT

TEST CERTIFICATE

15562

F-QCD-03



ISO/TS
16949 : 2009
ISO 9001 : 2008
ISO 14001 : 2004

M/S. SARA SAE PRIVATE LIMITED DIVISION-II A-2 SARA INDUSTRIAL ESTATE LTD. CHAKRATA ROAD, SELAQUI RAMPUR DEHRADUN (UTTRAKHAND)	T.C. No. 3467 Invoice No. Truck No. PB23F-4210	Date 30-03-2014
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
SAE1008	25X40 MM	S-56	L/HT	ORANGE	AS ROLLED	6.645 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	0.34	0.023	0.025	0.06					0.024					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	6/7	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	P+P	H ₂	
ACTUAL	1.5		1.0		1.0		1.0	0.5				

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									

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Regd.									
Actual									

Remarks :

OK