

Sample Name-s-770	Type	Meas. Date	Time	Calc. Date	Time	Origin	Method Name	Method Version	Operator Name	Check Type	Check Status	Grade Verif. Name	Grade Verif. %	Correction Type	Type	Corr. Name	Grade Search Name	Grade Search %	Type	Status	Outlier Removal				
Unknown	11/28/2012	11:50:32 AM	11/28/2012	11:51:10 AM	Measured	Fe-10-MO	SARA SAE	None	Not Used	0	None	0	Grubbs	Not Used	No										
Sample Name	Grade Norm	Grade ID -AISI 1008																							
		C	Si	Mn	P	S	Cr	Mo	Ni	Al	Co	Cu	Nb	Ti	V	W	Pb	Sn	As	Zr	Ca	Ce	B	Zn	La
		Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1		0.063	0.23	0.48	0.025	0.023	0.003	0.003	0.006	0.013	0.002	0.002	0.003	0.0010	0.002	0.030	0.010	0.002	0.005	0.003	0.0005	0.006	0.0005	0.003	0.002
2		0.062	0.23	0.48	0.022	0.018	0.003	0.003	0.007	0.013	0.002	0.003	0.003	0.0010	0.002	0.030	0.010	0.002	0.005	0.003	0.0005	0.006	0.0005	0.003	0.002
3		0.063	0.23	0.47	0.027	0.023	0.002	0.003	0.006	0.015	0.002	0.003	0.003	0.0010	0.002	0.030	0.010	0.002	0.005	0.003	0.0005	0.006	0.0005	0.003	0.002
Mean		0.062	0.23	0.48	0.025	0.021	0.003	0.0003	0.006	0.014	0.0003	0.003	-0.003	0.0002	0.0000	-0.009	-0.0006	0.002	-0.007	0.0009	0.0003	-0.006	-0.0009	0.0001	-0.0008



SHARU STEELS (P) LTD.

B-48 & D-251, Phase-VII, Focal Point, LUDHIANA - 141 010.

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QUALITY ASSURANCE DEPARTMENT METALLURGICAL TEST REPORT

F-QCD-03



TEST CERTIFICATE

M/S. SARA SAE PRIVATE LIMITED UNIT NO.4 BACK SIDE RADHA SWAMI SATSANG GHAR, VILLAGE MAHAL ROAD, G.T. ROAD, GORAYA (PUNJAB)	T.C. No. 2514 Invoice No. 1847 Truck No. PB29-9605	Date 25-11-2012
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GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
SAB1008	68 MM	S-770	L/HT	BROWN	AS ROLLED	6.395	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	0.54	0.012	0.019	0.16					0.031					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	6.5	Gas content (ppm)					
A		B		C		D		Decarb. (MM)				O ₂				
T	H	T	H	T	H	T	H		Micro-Structure	P+P		N ₂				
STD MAX								ACTUAL			1.0		1.0		1.5	

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

HARDENABILITY (HRC) AS PER IS : 3848

Distance											
Regd.											
Actual											

Remarks :

OK
[Signature]