

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9394 (s-54)	Unknown	Saturday, April 19, 2014	3:48:58 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
9394 (s-54)

	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
1	0.090	0.068	0.35	0.016	0.030	0.057	<0.003	0.034	0.051	<0.005	0.041	<0.005	<0.0010	0.004	<0.040	<0.010	0.004	<0.005	<0.003
2	0.085	0.065	0.34	0.016	0.027	0.054	<0.003	0.034	0.020	<0.005	0.040	<0.005	<0.0010	<0.002	<0.040	<0.010	0.003	<0.005	<0.003
3	0.098	0.070	0.35	0.020	0.042	0.057	<0.003	0.036	0.073	<0.005	0.041	<0.005	<0.0010	<0.002	<0.040	<0.010	0.004	<0.005	0.003
Rep	0.091	0.068	0.35	0.017	0.033	0.056	0.003	0.035	0.048	<0.005	0.041	<0.005	<0.0010	0.003	<0.040	<0.010	0.002	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	0.091	0.068	0.35	0.017	0.033	0.056	<0.004	0.035	0.048	<0.006	0.041	<0.014	<0.003	<0.002	<0.072	<0.0004	0.004	<0.005	<0.003
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
1	0.002	<0.0005	99.2
2	0.001	<0.0005	99.2
3	0.002	<0.0005	99.1
Rep	0.001	<0.0005	99.2
Min Cal	0.0005	0.0005	
Mean	0.001	<0.0001	99.4
Max Cal	0.016	0.025	

OK in 1008
Grade
Dupes



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

M/S. SARA SAE PRIVATE LIMITED DIVISION-II A-2 SARA INDUSTRIAL ESTATE LTD. CHAKRATA ROAD, SELAQUI RAMPUR DEHRADUN (UTTARAKHAND)	T.C. No. 3468 Invoice No. Truck No. PB23F-4210	Date 30-03-2014
---	--	-----------------

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
SAE1008	25X40 MM	S-54	L/HT	YELLOW	AS ROLLED	3.775 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	0.36	0.025	0.025	0.06					0.031					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)		Gas content (ppm)	
	A		B		C		D		Decarb. (MM)	6/7	O ₂	
	T	H	T	H	T	H	T	H			N ₂	
STD MAX									Micro-Structure	P+F	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									

HARDENABILITY (HRC) AS PER IS : 3848

Distance										
Regd.										
Actual										

Remarks :

OK