



Sample Res

Sample Result Name		Type	Measure Date Time		Recalculation Date Time		Origin	
10220 (HNO-S-58) DIA-56 MM		Unknown	Saturday, November 08, 2014		5:39:28 PM		Measured	
Method Name		Method Version	Operator Name		Check Type		Check Status	
Fe-10-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						
10220 (HNO-S-58) DIA-56 MM								

	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
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
5	0.087	0.090	0.45	0.020	0.041	0.040	<0.003	<0.005	0.045	<0.002	0.042	0.013	0.006	0.006	<0.030	<0.010	0.009	<0.005	<0.003
6	0.087	0.091	0.44	0.019	0.050	0.040	<0.003	<0.005	0.086	0.002	0.042	0.012	0.008	0.005	<0.030	<0.010	0.007	<0.005	<0.003
7	0.086	0.093	0.44	0.022	0.050	0.040	<0.003	<0.005	0.047	0.002	0.041	0.009	0.007	0.004	<0.030	<0.010	0.007	<0.005	<0.003
Rep	0.087	0.092	0.44	0.020	0.047	0.040	0.003	<0.005	0.059	0.002	0.042	0.012	0.007	0.005	<0.030	<0.010	0.008	<0.005	0.003
Min Cal	0.005	0.005	0.004	0.003	0.002	0.005	0.003	0.005	0.003	0.002	0.002	0.003	0.0010	0.002	<0.030	0.010	0.002	0.005	0.003
Mean	0.087	0.092	0.44	0.020	0.047	0.040	<-0.0006	<0.003	0.059	<0.002	0.042	0.012	0.007	0.005	<0.021	<0.004	0.008	<-0.019	<-0.00
Max Cal	1.80	24.00	2.76	0.16	0.30	10.10	10.20	6.48	2.40	2.52	1.44	0.39	1.20	1.32	3.72	0.31	0.18	0.17	0.28
Ca	Ce	B	Zn	La	Fe														
Conc	Conc	Conc	Conc	Conc	Conc														
%	%	%	%	%	%														
5	0.006	0.016	<0.0005	0.020	0.003	99.1													
6	0.008	0.014	<0.0005	0.018	0.003	99.0													
7	0.009	0.014	<0.0005	0.018	0.003	99.1													
Rep	0.008	0.015	<0.0005	0.019	0.003	99.0													
Min Cal	0.0005	0.006	0.0005	0.003	0.002														
Mean	0.008	0.015	<-0.001	0.019	0.003	99.1													
Max Cal	0.016	0.066	0.018	0.036	0.27														

Quality in 1008 as per
808 26-615

Rebach

11/11/2014

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

TEST CERTIFICATE

20506

F-QCD-03

ISO 9001 : 2008
Certified Company

M/S. SARA SAE PRIVATE LIMITED DIVISION-II
A-2 SARA INDUSTRIAL ESTATE LTD.
CHAKRATA ROAD, SELAQUI RAMPUR
DEHRADUN (UTTRAKHAND)

T.C. No. 1416

Date 06-11-2014

Invoice No.

Truck No. UA07T/2871

GRADE	SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS.
SAE1008	56 MM	S-58	L/HT	YELLOW	AS ROLLED	6.315 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	C	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	Ca
Min.	-	0.30													
Max.	0.10	0.50	0.025	0.025	0.10										
Actual	0.09	0.38	0.018	0.020	0.09					0.040					

METALLURGICAL RESULTS

INCLUSION RATING IS : 4163/JK CHART/ASTM E-45A									Aust. Grain Size ASTM No. (E-112)	4/5	Gas content (ppm)		
	A		B		C		D				Decarb. (MM)	O ₂	
	T	H	T	H	T	H	T	H					
STD MAX												N ₂	
ACTUAL	1.0		1.0		1.0		1.5	0.5			Micro- Structure	p+F	H ₂

MECHANICAL PROPERTIES

	U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / RB	MACRO	ULTRASONIC TEST	MIX UP TEST
Reqd.							OK	OK	OK
Actual						148			

HARDENABILITY (HRC) AS PER IS : 3848

Distance									
Regd.									
Actual									

Remarks : REDUCTION RATIO=7.92:1

Qualify in 1008 as
per spec 26-6/5
@Dybal