

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9618 (s-344) strip 22 x 22	Unknown	Saturday, June 28, 2014	3:18:43 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 Cor Sample Name	Grade Search Name
	0	None		
Grade Search Similarity	Type	Status	Outlier Removal	
0	None	Not Used		

Sample Name 9618 (s-344) strip 22 x 22

	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	0.088	0.081	0.43	0.026	0.052	0.047	<0.003	0.040	0.031	0.012	0.068	<0.005	0.002	0.004	<0.040	<0.010	0.011	<0.005	<0.003
2	0.090	0.087	0.46	0.026	0.055	0.047	<0.003	0.045	0.034	<0.005	0.073	<0.005	0.005	0.006	<0.040	<0.010	0.014	0.007	<0.003
4	0.075	0.090	0.44	0.020	0.044	0.041	<0.003	0.043	0.039	0.007	0.063	<0.005	0.005	0.003	<0.040	<0.010	0.008	<0.005	<0.003
Rep	0.081	0.086	0.44	0.024	0.050	0.045	0.003	0.042	0.035	0.007	0.068	<0.005	0.004	0.004	<0.040	<0.010	0.011	0.006	0.003
Min Cal	0.008	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	0.081	0.086	0.44	0.024	0.050	0.045	<0.007	0.042	0.035	0.007	0.068	<0.009	0.004	0.004	<0.052	<0.005	0.011	<0.004	<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	0.18

	Ca	B	Fe
	Conc	Conc	Conc
%	%	%	%
1	0.001	<0.0005	99.0
2	0.001	0.001	99.0
4	0.001	<0.0005	99.1
Rep	0.001	0.0008	99.0
Min Cal	0.0005	0.0005	
Mean	0.001	0.0006	99.2
Max Cal	0.016	0.025	

OK in 1008 grade
as per 528 26-05
Rupali

**QUALITY ASSURANCE DEPARTMENT
METALLURGICAL TEST REPORT**

TEST CERTIFICATE



SHARU PRIVATE LIMITED DIVISION-II
INDUSTRIAL ESTATE LTD.
INDUSTRIAL ROAD, SELAQUI RAMPUR
UTTARAKHAND

T.C. No. 0018

Date 26-06-2014

Invoice No.

Truck No. PB10CM-8551

SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.	QNTY. M.T.	NO. PC.
122 MM	S-344	L/HT	YELLOW	AS ROLLED	7.280 MT	1008

CHEMICAL COMPOSITION IN PERCENTAGE

	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	C
0.19	0.46	0.030	0.032	0.07					0.031					

METALLURGICAL RESULTS

SELECTION 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	
H	T	H	T	H	T	H				N ₂	
1.5	1.0		1.0		1.0		Micro-Structure	P+P		H ₂	

MECHANICAL PROPERTIES						MACRO	ULTRASONIC TEST	MIX UP TEST
Y.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / Ra	OK		OK

HARDENABILITY (HRC) AS PER IS : 3848

1008 Grade
Deepak