

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9619 (s-345)	Unknown	Saturday, June 20, 2014	3:21:18 PM	Measured
Method Name	Method Version	Operator Name	Check Type	Check Status
Fe-30-MD		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
0619 (s-345)

	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
3	0.085	0.084	0.46	0.028	0.058	0.044	<0.003	0.033	0.053	0.005	0.057	<0.005	0.005	0.004	<0.040	<0.010	0.019	0.005	<0.003
5	0.046	0.094	0.43	0.021	0.037	0.040	<0.003	0.035	0.045	0.007	0.057	<0.005	0.007	<0.002	<0.040	<0.010	0.009	<0.005	<0.003
6	0.061	0.086	0.42	0.020	0.038	0.036	<0.003	0.038	0.036	0.006	0.056	<0.005	0.004	<0.002	<0.040	<0.010	0.012	<0.005	<0.003
Rep	0.064	0.089	0.44	0.023	0.044	0.041	0.003	0.035	0.045	0.006	0.060	<0.005	0.005	0.003	<0.040	<0.010	0.013	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	0.064	0.089	0.44	0.023	0.044	0.041	<0.009	0.035	0.045	0.006	0.060	<0.013	0.005	<0.001	<0.084	<0.0003	0.013	<0.001	<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	0.16

	Ca	B	Fe
	Conc	Conc	Conc
%	%	%	%
3	0.001	0.001	99.0
5	0.0006	0.0005	99.1
6	0.0007	0.0007	99.1
Rep	0.0008	0.0009	99.1
Min Cal	0.0005	0.0005	
Mean	0.0008	0.0009	99.2
Max Cal	0.016	0.025	

OK in 1008 grade
at per SSS 26-615
@copy

7/7/2014

Sample Results



TEST CERTIFICATE

SAR PRIVATE LIMITED DIVISION-II
SEA INDUSTRIAL ESTATE LTD.
SEA ROAD, SELAQUI RAMPUR

INDEN (UTTRAKHAND)

T.C. No. 0019

Date 26-06-2014

Invoice No.

Truck No. PB10CN-8551

SIZE	HEAT NO.	MANUFACTURING ROUTE	COLOUR CODE	SUPPLY COND.N.	QNTY. M.T.	NO. OF PCS
12122 MM	S-345	L/RT	GREY	AS ROLLED	6.585 MT	LOOSE

CHEMICAL COMPOSITION IN PERCENTAGE

	Mn	S	P	Si	Ni	Cr	Mo	V	Al	Cu	Sn	Ti	B	C
1.68	0.43	0.016	0.028	0.09					0.035					

METALLURGICAL RESULTS

USION 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	N ₂
T	H	T	H	T	H	T	H				
1.0		1.0		1.0		1.0					
								Micro-Structure	P+P	H ₂	

MECHANICAL PROPERTIES

						TEST	
U.T.S.	Y.S.	EL %	RA %	Impact Value	Hardness B.H.N. / R _a	OK	OK
				✓			

HARDENABILITY (HRC) AS PER IS : 3848

[illegible]

OK in 1908 Grade
Dupate

THAT THE TEST FINDINGS ARE CORRECT & ARE BASED ON