

Sample Result Name	Type	Measure Date Time	Recalculation Date Time	Origin
9883 (11077)HNO-1809/H-12/2014, MDSTEEL	Unknown	Friday, August 29, 2014	5:11:52 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
9883 (11077)HNO-1809/H-12/2014,
MDSTEEL

Grade

	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	0.047	0.35	0.82	0.016	0.030	22.82	2.97	38.79	0.088	0.088	1.68	0.072	0.73	0.14	<0.040	0.013	0.052	<0.005	0.003
2	0.043	0.35	0.81	0.017	0.026	22.95	2.89	38.83	0.093	0.089	1.68	0.069	0.72	0.14	<0.040	0.014	0.048	<0.005	0.003
3	0.054	0.35	0.80	0.016	0.030	22.86	2.90	38.77	0.11	0.087	1.68	0.070	0.71	0.14	<0.040	0.013	0.049	<0.005	0.003
Rep	0.048	0.35	0.81	0.016	0.029	22.88	2.92	38.80	0.096	0.088	1.68	0.070	0.72	0.14	<0.040	0.013	0.050	<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	0.010	0.002	0.040	0.010	0.002	0.005	0.003
Mean	0.048	0.35	0.81	0.016	0.029	22.88	2.92	38.80	0.096	0.088	1.68	0.070	0.72	0.14	<0.0010	0.013	0.050	<0.003	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	0.006	0.001	31.24																
2	0.005	0.001	31.17																
3	0.007	0.001	31.31																
Rep	0.006	0.001	31.24																
Min Cal	0.0005	0.0005	31.28																
Mean	0.006	0.001																	
Max Cal	0.016	0.025																	

Quality in TN-825 as per
SAS 24-724A

Deepak

MRV No-18847 Po No-7054



M.D. Steels Pvt. Ltd.

Plot No. F-669, Phase - II

RIICO Industrial Area, Bhiwadi, Distt.- Alwar (Rajasthan) 301019

Phone +91 1493 512079/225495 Fax +91 01493 222483

Email: mdsteels@gmail.com Website: www.mdsteels.com

Customer: M/s Sara Sae Pvt. Ltd. Division - II
A-2, Sara Industrial Estate Ltd.
Chakrata Road, Rampur - SELAQUI
Dehradun - 248197 - Uttarakhand

T.C. No. : M-1709

Dated : 19.08.2014

Heat No. : 1809/H-12/2014

Date : 12.08.2014

Order No. 7054 Dated 15.07.2014

Specification: INC 825

Foundry Identification : MD

Surface : Proof Machine

Casting Processed by Induction melting

Heat Treatment : Solution Annealed at 1060⁰ C, 1.30 Hours Soaking and Water Quenched

CHEMICAL COMPOSITION %

Element	C	Si	Mn	Cr	Ni	Mo	S	Al	Cu	Ti	P
Minimum	-	-	-	19.50	38.000	2.500	-	-	1.500	0.60	-
Maximum	0.050	0.500	1.000	23.50	46.000	3.500	0.030	0.200	3.000	1.20	0.030
Actual	0.044	0.421	0.654	21.30	39.300	3.000	0.008	0.066	1.700	1.10	0.003

MECHANICAL PROPERTIES

	Y.S.	UTS	EL%	Reduction of Area	Charpy At ambient temp.	Bend Test	Hardness				
	Mpa	Mpa	GI= 50mm	Area %	Ambient temp.		HRB				
Min											
Max											
Actual											

S. No.	Description	Item Code	Qty.
2	Centrifugally Casted Rings - BX 158 OD 356 X mm X ID 302 mm X H- 27.5 mm	II077-R	20 Nos. (16-35)

Remarks: Visual Inspection Carried out and dimension checked and found Ok.

specification and was found to meet the requirements and also compliance to the purchase order.

Gopal Dass.
Checked by

Approved by

for M. D. Steels Pvt. Ltd.



Quality in IN-825
as per spec 26-724A
Deepak

M. D. STEELS (P) LTD.
F-669, Phase-II, Indl Area
BHIWADI - 301 019,
☎ : 01493 - 222483, 512079