

Sec. 7. 2006 3:10PM

No. 2082 P. 3/14

CERTIFIED MATERIAL TEST REPORT
Hackney Ladish Inc.

P.O. Box 568887 - 2525 Stemmons Freeway - Dallas, TX 75356 - 8887
 Phone: (214) 589-8177 Fax: (214) 589-8892

Order Number: 1884

Date: 09/07/06

Sold to: PLESA ANAHUAC Y CIAS S. A. DE Ship to:
 VALLE DE LAS ALAMEDAS NO 66-0
 TULTITLAN MX 54940

Heat Code	Quantity	Description / Specifications
A06BT	18 STD LR 90	A/SA 234 - 05A WPB (SMLS)
	A106B 55 25319	HOT FORMED NACE MR0175
D06RHS	24 X 16 STD CONC	A/SA 234 - 05A WPB (SMLS)
	A106B 9 S20165	STRESS RELIEVED NACE MR0175
537NO	12 X 6 STD ECC	A/SA 234 - 05A WPB (SMLS)
	A106B MIW/48 24856	HOT FORMED NACE MR0175
E06WS	24 STD LR 45	A/SA 234 - 06 WPB (SMLS)
	106B 168 255279	HOT FORMED NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
A06BT	M	.160	1.020	.010	.001	.230	.011	.080	.090	.030	.0200
D06RHS	M	.190	1.040	.011	.004	.210	.040	.080	.100	.020	.0300
537NO	M	.170	1.100	.014	.003	.230	.079	.040	.050	.021	
E06WS	M	.160	1.090	.014	.006	.220	.150	.110	.100	.010	.0200

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
A06BT	.0006	.000	.0000	.0000	.000	.007				.360
D06RHS		.003	.0001	.0020	.002					.395
537NO		.036			.000					.382
E06WS	.0076	.003								.382

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
A06BT	75.8	L		52.8	44.0		197
D06RHS	70.0	L		43.4	36.0	74.0	137
537NO	80.5	L		57.3	33.0		197
E06WS	74.7	L		53.4	47.5		149

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
A06BT						
D06RHS						
537NO						
E06WS						

Test: M=Mill Product

Type: L=Longitudinal

We certify that the material herein described has been manufactured in accordance with the above standards and specifications and satisfies all the requirements of the latest editions unless otherwise noted. We certify these fittings capable of passing a hydrostatic test compatible with their rating. The above figures are correct as contained in the records of the Company. This information has been electronically transmitted to our customer.
 /S/ Glinda LaFleur