

**CERTIFIED MATERIAL TEST REPORT**  
**Hackney Ladish Inc.**

P.O. Box 803466 - 5495 Beltline Rd. #290 - Dallas, TX 75254  
 Phone: (800) 527-4500 Fax: (214) 269-5601

Order Number: 6775

Date: 09/03/09

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

Heat Code	Description / Specifications			
K08SD	20 S/80 TEE	A/SA 234 - 07	WPB (SMLS)	
	A106B 187 183189	HOT FORMED	NACE MR0175	
L07TF	20 S/40 TEE	A/SA 234 - 07	WPB (SMLS)	
	TRI-Y56 61 975975	HOT FORMED	NACE MR0175	
D07YY1	18 S/40 TEE	A/SA 234 - 06A	WPB (SMLS)	
	TRI-56 61 970164	HOT FORMED	NACE MR0175	

**Chemical Analysis**

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
K08SD	M	.140	1.290	.013	.002	.260	.120	.080	.120	.030	.0260
L07TF	M	.150	1.090	.012	.002	.220	.120	.080	.090	.030	.0270
D07YY1	M	.170	1.070	.016	.001	.220	.120	.070	.070	.030	.0200

**Chemical Analysis (cont.)**

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
K08SD	.0080	.076	.0004	.0110	.016	.007				.413
L07TF	.0060	.040								.376
D07YY1	.0048	.040								.388

**Physical Properties**

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
K08SD	74.9	T		52.0	34.7	75.0	162
L07TF	76.3	L		51.2	37.0		156
D07YY1	75.0	L		51.7	38.0		149

**Charpy Results**

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
K08SD						
L07TF						
D07YY1						

Test: M=Mill Product

Type: T=Transverse 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 editions specified. We certify all materials provided comply with ISO 10204 paragraph. 3.1 which replaces type 3.1.B of the 1991 edition of EN 10204. Our ISO9001:2000 certificate number is CERT11763-2007-AQ-HOU-RVA/ANAB. We certify these fittings capable of passing 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.