Date: 07/10/08

## CERTIFIED MATERIAL TEST REPORT Hackney Ladish Inc.

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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 B08ZS1√ 16 STD CAP A/SA 234 - 07 WPB (SMLS) A516-70 154 7108814 HOT FORMED NACE MR0175 COSAYIS 4 X 2 XH TEE A/SA 234 - 07 WPB (SMLS) 470DH 9 A60118 STRESS RELIEVED NACE MR0175 8 X 5 STD ECC 409ZN √ A/SA 234 - 07 WPB (SMLS) A106B MIW/7 W80012 NORM NACE MR0175

Chemical Analysis Si C Mn P S 1.060 .020 .006 .180 .740 .009 .003 Heat Code Test Cu Ni Çr Mo Al B08ZS1 .180 .270 .060 M .110 .020 .0230 COSAY1S M .230 .070 .020 .030 .080 .0340 .690 .008 .007 .200 409ZN M .210 .090 .180 .070 .020

Chemical Analysis (cont.)										
Heat Code	N	V	В	Ti	Cb	Sn	M	Pb	Co	CE
B08ZS1		.002	.0003	.0010	.001	.012				.405
C08AY1S		.003	.0003		.001					.330
409ZN		.001	.0001	.0010	.001					.361

Physical Properties Tensile KSI Type Thickness Yield KSI % Elong. (4D) % RA Heat Code Hardness HB B08ZS1 82.5 T 53.5 23.0 163 COSAY1S 63.0 37.2 41.0 120 409ZN 75.5 L 51.0 32.0 66.0 123

Charpy Results

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

B08ZS1
C08AY1S
409ZN

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.