CERTIFIED MATERIAL TEST REPORT Hackney Ladish Inc.

P.O. Box 803466 - 5495 Beltline Rd. #290 - Dallas, TX 75254

.370

Ni

.100

22.0

cr

Pb

.110

A1

CE

163

% Shear

.0260

431

.020

Co

Phone: (800) 527-4500 Fax: (214) 269-5601

Heat Code Quantity Description / Specifications TAP CAP 12 XS A/SA 234 - 07 WPB H07JW

A516-70 154 7101456 HOT FORMED

(SMLS)

NACE MR0175

Chemical Analysis

<u>P S Si</u> Cu

Chemical Analysis (cont.) Ti Cb Sn

Physical Properties Heat Code Tensile KSI Type Thickness Yield KSI % Elong. (4D) % RA Hardness HB

.0010 .001 .017

51.0

Charpy Results

.200 1.040 .009 .004 .200

.0001

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

We certify that the material herein described has been manufactured in

as contained in the records of the Company. This information has been

edition of EN 10204. Our ISO9001:2000 certificate number is

electronically transmitted to our customer.

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

CERT11763-2007-AQ-HOU-RVA/ANAB. We certify these fittings capable of passing hydrostatic test compatible with their rating. The above figures are correct

Mn

.002

Heat Code Test C

N

79.0

H07JW

H07JW

H07JW

H07JW

Test: M=Mill Product Type: T=Transverse

Heat Code