## 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

Heat Code Description / Specifications

A516-70 154 7106889

TAP-CS-10XS K07MK

A/SA 234 - 07 WPB (SMLS)

HOT FORMED

NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	_Si	Cu	Ni	Cr	Mo	Al
K07MK	M	.190	1.040	.013	.002	.240	.220	.050	.100	.000	.0270

Chemical Analysis (cont.)

Heat Code N	V	В	Ti	Cb	Sn	W	Pb	Co	CE
K07MK	.002	.0001	.0020	.001	.006				.401

Physical Properties

Heat Code Tensile KSI Type Thickness Yield KSI % Elong. (4D) % RA Hardness HB 80.6 T 54.5 23.1 163 K07MK

Charpy Results

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

K07MK

Test: M=Mill Product Type: T=Transverse

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.