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CERTIFIED MATERIAL TEST REPORT Hackney Ladish Inc.

No. 3838 P. 3

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

Order Number: 4727

Date: 07/18/08

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

TULTITLAN MEX 54940

| Heat Code<br>B08ZS1 | Description /             | Specifications |   | `  |
|---------------------|---------------------------|----------------|---|----|
| E08FB               | A516-70 154<br>16 STD CAP | 7108814        | A/SA 234 - 07 WPB (SMLS) HOT FORMED NACE MR01 | 70 |
|                     | A516-70 154               | 7107184        | A/SA 234 - 07 WPB (SMLS)                      |    |

| 170-1-0-1                    | -                     |      |                      | Ch   | emica. | l Analy | sis |                    |                  |       |
|------------------------------|-----------------------|------|----------------------|------|--------|---------|-----|--------------------|------------------|-------|
| Heat Code<br>B08ZS1<br>E08FB | <u>Test</u><br>M<br>M | .180 | Mn<br>1.060<br>1.050 | .020 | .006   | Si      |     | Ni<br>.060<br>.080 | <br>.020<br>.010 | .0230 |

|                              |   |              | Cher  | nical A | nalysis | (cont | .) |    |    |  |
|------------------------------|---|--------------|-------|---------|---------|-------|----|----|----|--|
| Heat Code<br>B08ZS1<br>E08FB | N | .002<br>.004 | .0003 | Ti      | .001    | .012  | W  | Pb | Со |  |

|        |                     |           | Physical  | Properties        | 3 |        |      |   |    |             |
|--------|---------------------|-----------|-----------|-------------------|---|--------|------|---|----|-------------|
| B08251 | Tensile KSI<br>82.5 | Type<br>T | Thickness | Yield KSI<br>53.5 | * | Elong. | (4D) | * | RA | Hardness HB |
| E08FB  | 84.1                | T         |           | 56.2              |   | 21.5   |      |   |    | 174         |

| Charpy Results  |             |            |     |             |                  |         |  |  |
|-----------------|-------------|------------|-----|-------------|------------------|---------|--|--|
| B08ZS1<br>E08FB | Size x 10mm | Type Temp. | (F) | Foot Pounds | Later. Expansion | % Shear |  |  |

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.