

CERTIFIED MATERIAL TEST REPORT

Trinity Fitting Group Inc.
Hackney * Ladish * Flo-Bend

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BPCS

Order Number: 7027

(270473-009) DOC #00141034 03/11/19 Date: 11/20/03

Sold to: TUBOS CONEXIONES Y TANQUES
VALLE DE LAS ALAMEDAS NO 66 B
SAN FRANCISCO CHILPAN
TULTITLAN EOO DE MEX 54940

Ship to: TUBOS CONEXIONES Y TANQUES 001
C/O SPECIALIST IN TRANSIT FWR
1801 MARKLEY - MODERN IND PARK
LAREDO TX 78041

| Heat Code | Quantity | Description / Specifications |
|-----------|----------|--|
| RD03FA | 10 | 16 XH LR 45 DEG EL A/SA 234 - 01 WPB GRB 48 10543 AS ROLLED NACE MR0175 |
| RM02RN | 10 | 16 XH LR 45 DEG EL A/SA 234 - 01 WPB A106B 48 97340 AS ROLLED NACE MR0175 |
| EJ03ZE | 10 | 10 STD CAP A/SA 234 - 01 WPB A516-70 154/3101775 NORM. 1650 NACE MR0175 |
| EH03HO | 10 | 10 X 6 STD RED TEE A/SA 234 - 01 WPB A106-B 48/11322 NORM. 1650 NACE MR0175 |

Chemical Analysis

| Heat Code | Test | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al |
|-----------|------|------|------|------|------|------|------|------|------|------|-------|
| RD03FA | M | .160 | .770 | .011 | .003 | .300 | .064 | .080 | .070 | .028 | .0200 |
| RM02RN | M | .170 | .680 | .008 | .001 | .280 | .074 | .040 | .060 | .037 | .0250 |
| EJ03ZE | M | .170 | .980 | .017 | .007 | .210 | .150 | .070 | .070 | .010 | .0270 |
| EH03HO | M | .180 | .940 | .018 | .008 | .240 | .140 | .080 | .070 | .030 | .0220 |

Chemical Analysis (cont.)

| Heat Code | N | V | B | Ti | Cb | Sn | W | Pb | Co | CE |
|-----------|-------|--------|--------|--------|-------|------|-------|------|-------|------|
| RD03FA | | .000 | .0000 | .0000 | .000 | .004 | | | | .317 |
| RM02RN | .0060 | .000 | .0000 | .0000 | .000 | .004 | | | | .310 |
| EJ03ZE | | < .010 | <.0005 | <.0100 | <.010 | .010 | .002 | .002 | <.050 | .365 |
| EH03HO | | < .010 | <.0005 | <.0100 | <.010 | .009 | <.002 | .002 | <.050 | .373 |

Physical Properties

| Heat Code | Tensile KSI | Type | Thickness | Yield KSI | % Elong. (4D) | % RA | Hardness HB |
|-----------|-------------|------|-----------|-----------|---------------|------|-------------|
| RD03FA | 72.5 | | | 44.6 | 45.0 | | 197 |
| RM02RN | 69.1 | | | 45.4 | 44.0 | | 197 |
| EJ03ZE | 76.1 | T | | 54.1 | 33.0 | 63.0 | 128 |
| EH03HO | 82.5 | L | | 52.0 | 33.0 | 73.0 | 146 |

Charpy Results

| Heat Code | Size x 10mm | Type | Temp. (F) | Foot Pounds | Later. Expansion | % Shear |
|-----------|-------------|------|-----------|-------------|------------------|---------|
| RD03FA | | | | | | |
| RM02RN | | | | | | |
| EJ03ZE | | | | | | |
| EH03HO | | | | | | |

Test: M=Mill Product

Type: T=Transverse L=Longitudinal

We certify that the material herein described has been manufactured, heat treated, sampled, tested, and inspected in accordance with the above standards and specifications and satisfies those requirements. We certify these flanges and fittings capable of passing a 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.
/S/ Glinda LaFleur