



## Certificate of Test

E130958

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HEAT E130958 ORDER 644203/ 02 BOL 0224133 \* CERTIFICATION \* 09/10/13

SHIP TO:  
EARLE M. JORGENSEN COMPANY  
1900 MITCHELL BLVD./ BAY 3

SCHAUMBURG 601930000

R 177137

----- YOUR ORDER & DATE -----  
P541918423 9/10/13 CUST# 0548001 CUST TAG#509092Q----- ITEM DESCRIPTION -----  
GRADE 304L/304/302 Ship Condition CONDA  
Size 304L RND HRART CONDA 6.2500 x 144.000 RL  
Country of Melt: UNITED KINGDOM Country of Mfg.: SWEDEN  
NAFTA Country of Origin is Country of MeltNo weld repair  
Free of mercury contamination, Free of radiation contamination  
No WEEE relevant substances; Meets EU electrical ROHS

Total Bundles 1 Total Weight 2555

WO 2044141 Bundles: 1F

----- SPECIFICATIONS -----  
AMS 5639H, 5647J SAE AMS-QQ-S-763B  
ASME SA182 E07-E10, Add. 11a ASME SA193 E10 Alla  
ASME SA479 E07-E10 All ASTM A182 13  
ASTM A262 98 Practice E ASTM A276 13  
ASTM A479/A479M 13 ASTM A484 13  
ASTM A193 12b DIN 50049/EN 10204 Type 3.1  
Solution Annealed Condition Federal Spec QQ-S-763F  
EN 10204 Type 3.1 Document DFARS 252.225.7009 10/4/11  
NACE MR0175-09, ISO 15156:09 DFARS 225.7002-3(B)(1)  
NACE MR0103-10----- MECHANICAL & OTHER TESTS -----  
Hardness as shipped (152 HB )  
Hardness as shipped 80 HRB  
Grain size 5.0 Tensile strength, KSI (MPa) 84.6 ( 583)  
Micro OK 0.2% Yield Strngth, KSI(MPa) 35.4 ( 244)  
Intergranular corrosion OK  
Elongation % in 4D 62.0  
Reduction of area % 76.0----- CHEMICAL COMPOSITION -----  
Carbon (C) .024 Manganese (Mn) 1.700  
Phosphorus (P) .032 Sulphur (S) .026  
Silicon (Si) .380 Chromium (Cr) 18.350  
Nickel (Ni) 8.160 Cobalt (Co) .151  
Copper (Cu) .460 Moly (Mo) .340  
Nitrogen (N) .082 Columbium (Cb) .020  
Titanium (Ti) .002 Aluminum (Al) .005  
Tin (Sn) .011 Tantalum (Ta) .008  
Vanadium (V) .060 Tungstem (W) .050  
Columbium/  
Tantalum (Cb+Ta) .028  
Iron (Fe) Balance  
Melt Practice EAF  
Refining Practice AOD  
De-long Ferrite

Knowingly & willfully falsifying or concealing a material act on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under federal statutes. We hereby certify that the test results shown in this report are correct and accurate as contained in the records of the company and are in compliance with the specifications, codes, and standards listed above.

M.F. Marcanio, Quality Manager