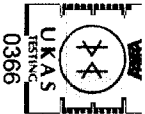


ROTECH Test Report

LABORATORY

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Rotech Number: 17-00839
 Issue: 1
 Date Reported: 25/09/2017
 Purchase Order No. 33862

Description: Elbow Forging 7/16 inch 90 degree
 Job No: 130959
 Part No: L162 Issue No. 1
 Cast No: L16009923

Specification: 316L
 Requirements: -
 Submitted by: SHARON THOMPSON
 Date Sample(s) Received: 18/09/2017
 Date(s) tested: 25/09/2017

Tested For:
 W.H. TILDESLEY LTD
 BOW STREET
 WILLENHALL
 WEST MIDLANDS
 WV13 2AN

The test items were submitted to the laboratory for:
 Mechanical - Tensile
 Mechanical - Hardness

Sample: 17-00839-001
 Elongation method: Elongation at fracture
 Mechanical - Tensile
 Tested in accordance with: ASTM A370 - 2014

Description: Longitudinal test piece Test piece type: Round Original gauge length [mm]: 4D

Sample ID	Test piece size [mm]	Yield strength (0.2% offset) [MPa]	Tensile strength [MPa]	Elongation [%]	Reduction of area [%]
1	12.54Ø	552	665	33.5	74
Rqmts	-	170	485	30	50

Sample: 17-00839-002
 Test load: 10/3000 Measurement device: Type A
 Mechanical - Hardness
 Tested in accordance with: ASTM E10 - 2015

Sample ID Hardness [HBW]

1	195
Rqmts	-

Comments: Test results conform to specification

F14163
 7/16" JIC MALE/FEM SWIV 90 DEG ELBOW

FLOW TECHNOLOGY LTD
 TEST CERTIFICATE
 VERIFIED TRUE
 COPY OF ORIGINAL

REPORT ISSUED AND
 AUTHORISED BY
 Chris Jones
 Technician

TESTS MARKED "NOT UKAS ACCREDITED" IN THIS REPORT/CERTIFICATE ARE NOT INCLUDED IN THE UKAS ACCREDITATION SCHEDULE FOR OUR LABORATORY.
 TESTS MARKED "SC" HAVE BEEN SUBCONTRACTED. RESULTS IN THIS REPORT RELATE ONLY TO THE ITEMS TESTED.
 OPINIONS AND INTERPRETATIONS EXPRESSED HEREIN ARE OUTSIDE THE SCOPE OF UKAS ACCREDITATION. THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THE LABORATORY.
 TESTING CONDUCTED IN ACCORDANCE WITH MANAGEMENT SYSTEM MANUAL ISSUE 14.