



# ACCREDITATION CERTIFICATE

**LB-TEST-122**

**Emirates International Accreditation Centre**

has accredited

**LONESTAR TECHNICAL AND INDUSTRIAL SERVICES LLC**

Abu Dhabi-United Arab Emirates

In accordance with the requirements of

**ISO/IEC 17025:2017**

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 22/06/2021 to 21/06/2024

Initial Accreditation Date: 22/06/2015



  
CHIEF EXECUTIVE OFFICER  
APPROVAL

**Accreditation Scope**  
**Metallurgical Mechanical Testing**  
**LB-TEST-122**

**Lonestar Technical and Industrial Services LLC**

**Abu Dhabi-United Arab Emirates**

Issue no.: 04

Date: 22-06-2021

Valid to: 21-06-2024

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Testing	Metals, Alloys and Metal Products	Standard Test Methods and Definitions for Mechanical Testing of Steel Products Charpy Impact (-196°C & -40°C to ambient)	ASTM A370
Mechanical Testing	Metals, Alloys and Metal Products	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials Charpy Impact Test	ASTM E23
Mechanical Testing	Metals, Alloys and Metal Products	Metallic materials. Charpy pendulum impact test. Part 1: Test method	BS EN ISO 148 Part 1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Testing	Metals, Alloys and Metal Products	Metallic materials Unified method of test for the determination of quasistatic fracture toughness CTOD(-196°C&-40°C to ambient)	ISO 12135
Mechanical Testing	Metals, Alloys and Metal Products	Metallic materials Method of test for the determination of quasistatic fracture toughness of welds CTOD(-196°C&-40°C to ambient)	BS EN ISO 15653
Mechanical Testing	Metals, Alloys and Metal Products	Standard Test Methods for Brinell Hardness of Metallic Materials	ASTM E10

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Mechanical Testing	Metals, Alloys and Metal Products	Metallic materials - Brinell hardness test Part 1: Test method Brinell (HBW 1/10, 1/30, 2.5/62.5 & 2.5/187.5)	BS EN ISO 6506 Part 1
Mechanical Testing	Metals, Alloys and Metal Products	Standard Test Methods for Rockwell Hardness of Metallic Materials (HRC & HRBW)	ASTM E18
Mechanical Testing	Metals, Alloys and Metal Products	Metallic materials- Rockwell hardness test Part 1: Test method (HRC&HRBW)	BS EN ISO 6508 Part 1
Mechanical Testing	Metals, Alloys and Metal Products	Standard Test Method for Knoop and Vickers Hardness of Materials- Vickers Hardness test Vickers (HV5, HV10 & HV30)	ASTM E92

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Mechanical Testing	Metals, Alloys and Metal Products	Metallic materials - Vickers hardness test Part 1: Test method Vickers (HV5, HV10 & HV30)	BS EN ISO 6507 Part 1
Mechanical Testing	Metals, Alloys and Metal Products	Standard Test Methods for Tension Testing of Metallic Materials	ASTM E8/E8M
Mechanical Testing	Metals, Alloys and Metal Products	Metallic materials. Tensile testing. Part 1: Method of test at ambient temperature Tensile (20 to 1000kN) (Ambient Temperature)	BS EN ISO 6892 Part 1 ASTM A370

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Testing	Weldments	Qualification standard for welding and brazing procedures, welders, brazers, and welding and brazing operators Chapy Impact (-196°C & -40°C to ambient)	ASME IX
Mechanical Testing	Weldments	Standard Methods for Mechanical Testing of Welds (Metric Customary Units) Chapy Impact (-196°C & -40°C to ambient)	AWS B4.0M
Mechanical Testing	Weldments	Structural Welding Code Steel Chapy Impact (-196°C & -40°C to ambient)	AWS D1.1/ D1.1M

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Testing	Weldments	Standard Test Method for Guided Bend Test for Ductility of Welds Bend test	ASTM E190 API 1104 21 <sup>st</sup> Edition BS EN ISO 5173+A1 ASME IX AWS B4.0M
Mechanical Testing	Weldments	Welding of Pipelines and Related Facilities Bend test	AWS D1.1/D1.1M
Mechanical Testing	Weldments	Destructive tests on welds in metallic materials	
Mechanical Testing	Weldments	Destructive tests on welds in metallic materials Hardness testing Part 1: Hardness test on arc welded joints Vickers (HV5, HV10 & HV30)	ASME IX AWS B4.0M AWS D1.1/D1.1M BS EN ISO 9015 Part 1

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Testing	Weldments	Destructive tests on welds in metallic materials -Fracture test Fracture (Fillet & Nick break)	ASME IX AWS B4.0M AWS D1.1/D1.1M BS EN ISO 9017
Mechanical Testing	Weldments	Destructive tests on welds in metallic materials Macroscopic and microscopic examination of welds Macro examination	ASME IX BS EN ISO 17639 AWS D1.1/D1.1M
Mechanical Testing	Weldments	Destructive tests on welds in metallic materials- Transverse tensile test Tensile (Ambient Temperature)	ASME IX AWS B4.0M AWS D1.1/D1.1M BS EN ISO 4136



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical Testing	Carbon steel for the reinforcement of concrete	Specification for Carbon steel bars for the reinforcement of concrete Bend & Re-Bend	BS 4449:1997 AMD1
Mechanical Testing	Carbon steel for the reinforcement of concrete	Steel for the reinforcement of concrete. Weldable reinforcing steel. Bar, coil and decoiled product. Specification Bend & Re-Bend	BS 4449:2005+A3
Mechanical Testing	Carbon steel for the reinforcement of concrete	Steel for the reinforcement and pre-stressing of concrete Part 1: Test methods. Reinforcing bars, wire rod and wire Bend & Re-Bend	BS EN ISO 15630 Part 1

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Mechanical Testing	Carbon steel for the reinforcement of concrete	Tensile (Ambient Temperature)	BS 4449:1997 AMD1 BS 4449:2005+A3 BS EN ISO 15630 Part 1
Chemical	Plain carbon & low alloy steels	Determination of C, Si, Mn, P, S, Cr, Mo, Ni, Al, Cu, N, V, Nb & Ti	CHM-SOP-117 Documented In-house method
Chemical	Stainless & high alloy steels	Determination of C, Si, Mn, P, S, Cr, Mo, Ni, Cu, N & V	CHM-SOP-138 Documented In-house method
Chemical	Pipe line & pressure vessel steels	Standard Test Method - Evaluation of Pipeline and Pressure Vessel Steels for Resistance to Hydrogen-Induced Cracking (HIC)	NACE TM 0284

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Austenitic stainless steels	Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels Inter-granular corrosion	ASTM A262 Practice A, B, C and E
Chemical	Wrought nickel and chromium bearing alloys	Standard Test Methods for Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys Inter-granular corrosion	ASTM G28 Method A
Chemical	Stainless steels, Nickel base and chromium bearing alloys	Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution-Pitting resistance	ASTM G48 Method A

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Nickel base and chromium bearing alloys	Critical pitting temperature	ASTM G48 Method C
Chemical	Stainless steels	Critical pitting temperature	ASTM G48 Method E
Chemical	Metals, Alloys & Weldments	Laboratory Testing of Metals for Resistance to Sulfide Stress Cracking and Stress Corrosion Cracking in H2S Environments	NACE TM 0177
Chemical	Metals, Alloys & Weldments	Standard Practice for Preparation and Use of Bent-Beam Stress-Corrosion Test Specimens	ASTM G39 NACE TM 0177
Chemical	Metals, Alloys & Weldments	Corrosion Test Sulfide Stress Cracking & Stress Corrosion Cracking	ASTM G39 NACE TM 0177

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Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Metals, Alloys & Weldments	A test method to determine the susceptibility to cracking of line pipe steels in sour service (Full Ring Test) Excluding NDT	HSE OTI 95 635 By copies Ltd. for the Health and Safety Executive

Accreditation History		
Issue no.	Details	Date
04	Renewal accreditation	22-06-2021
03	First issuance under the name of EIAC (which was formerly known as DAC) and comply with ISO/IEC 17025:2017	12-11-2019