

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 011
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**Accreditation No: LAB 011
Awarded to**

**Metallurgical Laboratory, (ML)
Pakistan Ordinance Factories, Pakistan.**

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **18-04-2005** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005**.

The accreditation requires regular surveillance, and is valid until **10-01-2019**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

Date

Director



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F-06/02
Issue Date: 10/08/15
Rev. No: 07
LAB 011

Testing Laboratory

Accreditation Scope of Metallurgical Lab (ML), POF, Wah Cantt., Pakistan

Permanent laboratory premises

Materials/ Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Standard specification/ Techniques/ equipment used	
Plain Carbon Steel	Chemical	Carbon	Combustion method using Strohlein apparatus.	
		Manganese	By per sulphate method (V.A) based on ASTM-E30-56	
		Silicon	By Hydrochloric acid method (G.A) based on G.E.F LUNDELL, Ph.D.	
		Sulphur	By evaluation method (V.A) based on ASTM-E30-56	
		Phosphorus	By Alkalimetric method (V.A) based on ASTM-E30-56	
Low Alloy Steel		Nickel	By Dimethyle glyoxime method (G.A) based ASTM – E30-56	
		Chromium	By Per managanate method (V.A) based on G.E.F LUNDELL, Ph.D	
Fuel oils, Lube oils, Suspensions of solids, liquids that tend to form a surface film under test conditions, drying oils and solvent types waxes			Flash point test (closed cup)	ASTM – D93-80
Any petroleum Oil			Pour point of petroleum oils	ASTM – D97-66
Motor gasoline			Distillation range	ASTM – D86-82

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Materials/ Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Standard specification/ Techniques/ equipment used
	Chemical		
Leaded Brass		Simultaneous analysis for Cu & Pb content.	By Electrolytic method (G.A) based on ASTM E36-45
		Analysis for Pb. Content	By Electrolytic method (G.A) based on ASTM E36-45
Metallic Materials		Tensile test	ASTM Pt- 10 (A370)
		Hardness	ASTM Pt. 10 E92-72
Plastics		Vicat softening Temperature	ASTM – D1525
Rubber		IRHD	ASTM- D1415
Cartridge (70/30) Brass		Elemental analysis for following elements using optical emission (OBLF) spectrometer Cu. Pb. Fe. Sn. Ni. Sb. Bi. As. P. Zn.	W.I # : POF/QSD/ ML- 11/WI-11 based on Equipment operation manual supplied by the manufacturer

Date

Director