

Laboratory **Materials Laboratory, Wabco India Ltd., Plant-1, III Main Road, Ambattur Industrial Estate, Chennai, Tamil Nadu**

Accreditation Standard **ISO/IEC 17025: 2005**

Discipline **Chemical Testing** **Issue Date** **09.03.2015**

Certificate Number **T-3323** **Valid Until** **29.06.2016**

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	METAL AND ALLOYS			
1.	Ferrous Alloys	Aluminum	IS 8811: 1998/	0.005 % to 0.150 %
		Boron	ASTM E 415: 2014	0.005 % to 0.010 %
		Carbon	OES Method LAS	0.010 % to 1.50 %
		Chromium		0.050 % to 2.00 %
		Cobalt		0.005 % to 0.050 %
		Copper		0.010 % to 0.500 %
		Manganese		0.05 % to 2.00 %
		Molybdenum		0.010 % to 0.50 %
		Nickel		0.050 % to 2.50 %
		Niobium / Columbium		0.002 % to 0.085 %
		Phosphorus		0.005 % to 0.070 %
		Silicon		0.050 % to 1.5 %
		Sulphur		0.005 % to 0.500 %
		Tin		0.003 % to 0.100 %
		Titanium		0.001 % to 0.03 %
		Vanadium		0.01 % to 0.2 %
		Zirconium		0.004 % to 0.050 %

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Ferrous Alloys	Carbon	IS 9879: 1998	0.005 % to 0.300 %
		Chromium	ASTM E 1086: 2014 OES Method SS	2.00 % to 20.00 %
		Manganese		0.100 % to 5.00 %
		Molybdenum		0.100 % to 3.00 %
		Nickel		2.00 % to 15.00 %
		Phosphorus		0.002 % to 0.050 %
		Silicon		0.100 % to 2.00 %
		Sulfur		0.005 % to 0.05 %
2.	Aluminum and Its Alloys	Beryllium	ASTM E 1251: 2011	0.001 % to 0.03 %
		Chromium	OES Method AL	0.010 % to 0.20 %
		Copper		0.020 % to 5.50 %
		Iron		0.100 % to 1.50 %
		Lead		0.005 % to 0.600 %
		Magnesium		0.010 % to 5.00 %
		Manganese		0.010 % to 1.20 %
		Nickel		0.010 % to 2.00 %
		Silicon		0.100 % to 15.00 %

