


Name of Work: Lubricating Grease Metal Particle Analyzer

Indent Demand Reference : WR-17050-26-00354 Dt. 14-01-2026

**Technical Specification of Lubricating Grease Metal Particle Analyzer (Ferrogram)**

Sr No.	Description of Machie	Parameter Required
1	Test Method	ASTM D8120 "Standard Test Method for Ferrous Debris Quantification"
2	Measurement	Direct Measurement of Ferrous Debris
3	Technique	Magnetometer
4	Units	ppm or mg/litre or mg/kg
5	Fluids	Lubricants Oil & Grease
6	Range	0-30000 ppm for oils , 0-15000 ppm for grease
7	Internal Data Storage	2000 sample data minimum
8	Sample Preparation	Not Required
9	Calibration	Calibration standard to be provided (10,50,100, 500, 2500, 10000)
10	Test Time	Less than 30 seconds
11	Limit Of Detection	Less than 5ppm
12	Repeatability	Less than 3% RSD
13	Display	LED/LCD/TFT & Touch Screen
14	Data Transfer	Hard Disk (1TB)& Software
15	Trending & reporting	Built in Software
16	Input Output Capability	Automated Data Storage & export files in CSV format
17	User Interface	Hard disk & Software
18	Input Power	230V 50-60Hz
19	Power Source	Ni-Cd(or)Li Ion rechargeable batteries (Unit must plug in for continous)
20	Weight	Must be light weight and portable
21	Inspection	Onsite inspection will be carried out by consignee before supply
22	Installation & Commissioning	By the firm within 30days of delivery
23	Training	Training for operations and troubleshooting to be provided to atleast two persons
24	Accessories	1. Compatble software feature with asset management database 2. Compatible PC/Laptop with all its accessories and compatible genuine operating system with power backup 2hrs minimum. 3. Charger/Adaptor for Grease Metal Particle Analyzer. 4.Compatible Connector Cable 5.Carry Case, dust cover 6. calibration & Check standards(Low range, Mid Range & High Range) 7. Instruction Manual
25	Consumables	1. 1000Nos of grease sample testing pots/Boats and blades 2. 5000Nos of Oil sample testing Vial with Stopper
26	Warranty	As per IRS conditions of contract

19/1/2026  
SSE/STORES(DSL)/BA  
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