TUVINDIA

Grease Analysis



The primary function of grease is to coat the machine surfaces and to lubricate them without leakage due to centrifugal forces or pressures. Also, grease must be able to flow throughout all components it is intended to.

A huge fraction of component bearings is being lubricated with grease. Routine grease testing is an important part of predictive and preventive maintenance programs.

TUV India's Routine testing and analysis helps to determine:

- Grease Condition normal, contamination present, oxidized, remaining useful life
- Bearing Condition the level of tear
- Frequency of re-greasing application intervals
- Condition of the System
- Contamination Scrutiny

TUV India provides range of condition monitoring services that consist of elemental examination, Particle Quantifier (PQ) and wear debris study for Grease applications.



Recommended tests for grease are:

Test Parameters	Testing Methods		
Wear Metal and	ASTM D5185		
Contamination Metals			
Cone penetration	ASTM D217		
Acidity	IS 1448 (Part-2)		
Free Acid	ASTM D128		
Alkalinity	-		
Free Alkali	ASTM D128		
Dropping Point	ASTM D2265 & D566/ IP 396		
Oxidation Stability	ASTM D942/ IP 142		
Copper Corrosion	ASTM D4048/ IP112		
Oil Separation	ASTM D4425 & D1742/		
	IP 121		
Evaporation Loss	IP 183		
Water washout	IP 215		
Water Content	ASTM D128		
Glycerin	ASTM D128		
Sulphur	ASTM D4294 & ASTM		
	D5453		
Unsaponifiable Matter	ASTM D128		
Soap Content	ASTM D128		
ASH	ASTM D128		
Viscosity	ASTM D445/ ISO 3104		

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Density	IS	1448	(Part-16)/
	ASTM D1298		
Cone Penetration	ASTM D217/ IP 50/		
Analytical Ferrography	ASTM D7690		

About Us:

TUV India Pvt. Ltd. (TÜV NORD GROUP) is a customer-focused, innovative, and independent, technical, quality & safety services organization, dedicated to providing future-proof solutions through technological excellence for the success of its customers with the highest level of integrity. With a presence at over 40 strategic locations in India; a branch office in Sri Lanka and Bangladesh; state-of-the-art laboratories at Pune, Bengaluru, Noida and Jamnagar; 100 important countries worldwide and through digital means, we are always connected to you, our esteemed customer, anywhere, anytime.

We are proud to provide increasing levels of services to the best known, largest global and national companies as well as medium and small industries in diverse sectors like Oil & Gas, Petro-chemical, Nuclear, Renewables, Infrastructure, Food, Power, Manufacturing, Chemicals, Pharma, Paper, Automobiles, Railways, Aerospace, Defence, IT, Health, Hospitality, Retail, etc.

Over 1400 competent and experienced TUV India experts spread across India and over 14000 TUV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing -Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Cargo Inspection; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TUV India Training Academy.

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Testing Laboratory Presence at Other Locations

- Hazira
- Gandhidham
- Mumbai

