



OIL ANALYSIS		
ITEM NO.	TEST	METHOD
1.0	USED OIL	
1.01	Water content	ASTM D 6304
1.02	Colour	ASTM D 1500
1.03	Flash Point (PMCC)	ASTM D 92
1.04	Density	ASTM D 1298
Used Oil- Spectrometric Wear Metals and Additive Metals		
1.05	Iron	ASTM D5185
1.06	Chromium	ASTM D5185
1.07	Nickel	ASTM D5185
1.08	Aluminium	ASTM D5185
1.09	Copper	ASTM D5185
1.10	Lead	ASTM D5185
1.11	Tin	ASTM D5185
1.12	Cadmium	ASTM D5185
1.13	Silver	ASTM D5185
1.14	Vanadium	ASTM D5185
1.15	Titanium	ASTM D5185
1.16	Molybdenum	ASTM D5185
1.17	Antimony	ASTM D5185
1.18	Manganese	ASTM D5185
1.19	Lithium	ASTM D5185
1.20	Boron	ASTM D5185



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ITEM NO.	TEST	METHOD
1.21	Magnesium	ASTM D5185
1.22	Calcium	ASTM D5185
1.23	Barium	ASTM D5185
1.24	Phosphorous	ASTM D5185
2	LUBRICANT OIL	
2.01	Total Acid Number	ASTM D664 . Method A: Automatic Titration
2.02	Total Base Number	ASTM D4739 (Automatic)
2.03	Water Content	ASTM D 6304
2.04	Viscosity (Kinematic) @40°C	ASTM D6304
2.05	Appearance	visual
2.06	Flash Point	ASTM D 92
2.07	Particle size	ISO 4406 & NAS-1638
2.08	Viscosity Index	ASTM D2270
2.09	Fuel % (FTIR)	In- house method
2.1	Glycol % (FTIR)	In- house method
2.11	FTIR Spectroscopy	In- house method
2.12	Density	ASTM D1298
3	DIESEL	
3.01	Water content	ASTM D 1533
3.02	Viscosity (Kinematic) @ 40°C	ASTM D 445
3.03	Ash Content	ASTM D482
3.04	Insoluble Pentane	ASTM D4055



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ITEM NO.	TEST	METHOD
3.05	Total Sediment	IP440
4	TRANSFORMER OIL	
4.01	Water content	ASTM D 1533 / IEC 60814
4.02	Viscosity	ASTM D 445 / ISO 3104
4.03	Flash Point	ASTM D 92 / ASTM D 93
4.04	Acidity	ASTM D 974 / IEC 62021
4.05	Dielectric Dissipation Factor and Resistivity	ASTM D 924 / IEC 60247
4.06	Breakdown Voltage	ASTM D1816 / IEC 60156
4.07	Interfacial Tension	ASTM D 971 / IEC 62691
4.08	Colour and Appearance	ASTM D 1500 / IEC 60296
4.09	Dissolved Gases Analysis	ASTM D 3612 / IEC 60567
4.10	Furanic Compounds	ASTM D 5837 / IEC 61198
4.11	Poly Chlorinated Biphenyls (PCB)	ASTM D 4059 / IEC61619
4.12	Particle size	ISO 4406 & IEC 60970
4.13	Corrosive Sulfur	ASTM D 1275 / IEC 62535
4.14	Density	ISO 3675 / ISO 12185
4.15	Oxidation Stability	IEC 61125
4.16	Dibenzyl Disulphide Measurement (DBDS)	IEC 62697
4.17	Passivator Contents Measurement	IEC 60666
4.18	Oxidation Inhibitor Content Measurement	IEC 60666
4.19	Sediment & Sludge	IEC 60422
4.20	Sampling of insulating liquids	IEC 60475