LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 094197-1216 - Diesel Engine

Sample No: LH0279118

Oil Type: PETRO CANADA 10W40



Water % NEG NEG NEG Soot % % 0 0 0 0 Nitration (PA) % 77 53 66 85 Sulfation (PA) % 55 50 52 60	CONTAMINATION					
Nitration (PA) % 77 53 66 85	Water	%	NEG	NEG	NEG	NEG
	Soot %	%	0	O 0	O 0	0
Sulfation (PA) % 55 50 52	Nitration (PA)	%	77	53	66	85
Canadion (171)	Sulfation (PA)	%	55	50	52	60
Glycol % NEG NEG NEG	Glycol	%	NEG	NEG	NEG	NEG
Fuel % <1.0 <1.0 <1.0	Fuel	%	1.1	<1.0	<1.0	<1.0
Silicon	Silicon	ppm	6	6	6	6
Sodium	Sodium	ppm	5	O 2	O <1	O 1
Potassium ppm ② 2 ○ 2	Potassium	ppm	2	O 2	<1	0

()					
WEA	R METAI	.S			
Iron	ppm	5	O 5	O 2	3
Copper	ppm	82	O 4	O <1	O 1
Lead	ppm	2	O <1	0	O <1
Tin	ppm	0	O 0	O 0	O <1
Aluminum	ppm	1	O 1	1	O 1
Chromium	ppm	0	O 0	O 0	O 0
Molybdenum	ppm	58	55	59	59
Nickel	ppm	0	O <1	0	O 0
Titanium	ppm	0	0	0	<1
Silver	ppm	○ <1	0	O 0	O 0
Manganese	ppm	0	0	O <1	O <1
Vanadium	ppm	0	0	0	0

ADDITIVES					
Calcium	ppm	857	O 1050	O 1119	O 1130
Magnesium	ppm	1097	934	965	970
Zinc	ppm	1188	O 1163	1185	O 1199
Phosphorus	ppm	1041	989	O 1064	O 1076
Barium	ppm	O <1	3	O 0	O 0
Boron	ppm	33	3	O <1	O <1





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F:

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: INDVIL
Unique No: 5734493
Signed: Kevin Marson
Report Date: 23 Feb 2024

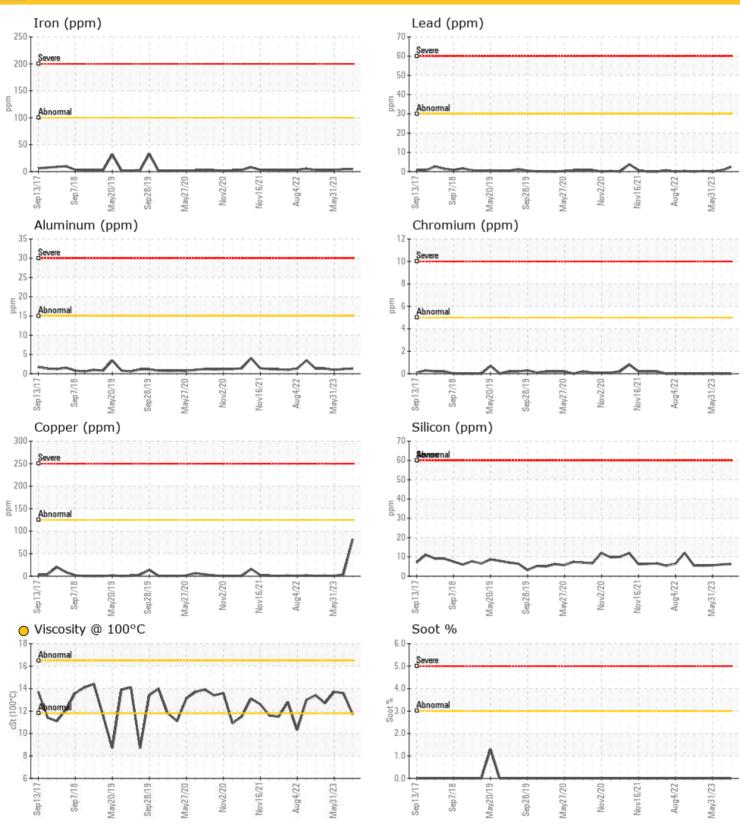
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GRAPHS



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Submitted By: ?