

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR PR736LGP 020009-1736 - Diesel Engine

Sample No: LH0286750

Oil Type: PETRO CANADA SUPREME 5W30



THOMAS CAVANAGH CONSTRUCTION LTD
RR # 2, 9094 CAVANAGH ROAD
ASHTON, ON
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Sample Information

Sample Number	LH0286750	LH0274331	LH0237750	LH0239693
Sample Date	25 Mar 2024	16 Nov 2023	22 Feb 2023	24 Aug 2022
Machine Hours	2903	2505	2011	1454
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 100°C	cSt	13.3	12.5	13.2	11.4
Oxidation (PA)	%	59	62	64	71



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	58	68	68	77
Sulfation (PA)	%	50	52	56	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.8	<1.0	<1.0
Silicon	ppm	6	10	7	9
Sodium	ppm	2	2	1	3
Potassium	ppm	<1	0	0	2

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	5	9	6	8
Copper	ppm	1	3	3	6
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	2	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	57	52	57	32
Nickel	ppm	0	0	<1	<1
Titanium	ppm	1	9	3	42
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



Additives

Calcium	ppm	1046	1108	1159	1624
Magnesium	ppm	967	889	954	436
Zinc	ppm	1163	1162	1208	1176
Phosphorus	ppm	976	984	1087	990
Barium	ppm	<1	<1	0	1
Boron	ppm	2	12	9	187

Depot: CAVASH
Unique No: 5762665
Signed: Kevin Marson
Report Date: 18 Apr 2024



Graphs

