

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Diesel Engine

Sample No: LH0288165

Oil Type: PETRO CANADA SUPREME 5W30



Sample Information

Sample Number	LH0288165	LH0278467	LH0224308	LH0278516
Sample Date	25 Apr 2024	22 Mar 2024	21 Feb 2024	22 Dec 2023
Machine Hours	9033	8517	8026	7142
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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Oil Condition

Visc @ 100°C	cSt	14.0	11.8	11.9	11.4
Oxidation (PA)	%	58	73	67	79



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	50	70	64	83
Sulfation (PA)	%	50	54	52	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	4	5
Sodium	ppm	1	4	4	3
Potassium	ppm	0	<1	1	1

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	2	3	4	5
Copper	ppm	1	2	3	6
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	58	60	57	57
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	1003	816	870	867
Magnesium	ppm	982	1108	1050	1042
Zinc	ppm	1180	1216	1179	1168
Phosphorus	ppm	998	1006	1005	1031
Barium	ppm	0	0	0	0
Boron	ppm	5	43	27	23

Depot: MANSEL
 Unique No: 5774221
 Signed: Kevin Marson
 Report Date: 03 May 2024



Graphs

