

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 058216-1334 - Diesel Engine

Sample No: LH0278312

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0278312	LH0269544	LH0238502	LH0195048
Sample Date	25 Nov 2023	19 Jul 2023	27 Aug 2022	08 Nov 2021
Machine Hours	8879	7908	6201	4200
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MODERN CONSTRUCTION (1983) LTD.
 364 BRIGGS CROSS ROAD
 STILESVILLE, NB
 CA E1G 3G3
 Contact: Blaine Cail
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 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	11.5	11.5	11.6	11.9
Oxidation (PA)	%	82	76	91	92



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0.1
Nitration (PA)	%	82	81	88	93
Sulfation (PA)	%	58	58	66	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	6	9	11
Sodium	ppm	4	5	5	5
Potassium	ppm	<1	<1	2	4

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. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	6	6	12	15
Copper	ppm	2	1	3	7
Lead	ppm	<1	0	<1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	1	2	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	58	61	57	66
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	<1	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	805	830	844	944
Magnesium	ppm	1103	1143	1126	1337
Zinc	ppm	1191	1227	1241	1408
Phosphorus	ppm	974	1072	986	1207
Barium	ppm	<1	0	0	<1
Boron	ppm	17	25	12	18

Depot: MODSTI
 Unique No: 5694595
 Signed: Wes Davis
 Report Date: 07 Dec 2023



GRAPHS

