

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 058216-1334 - Diesel Engine

Sample No: LH0269544

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0269544	LH0238502	LH0195048	LH0194957
Sample Date	19 Jul 2023	27 Aug 2022	08 Nov 2021	17 Jun 2021
Machine Hours	7908	6201	4200	3025
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
 blaine.cail@moderngroup.ca
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	11.5	11.6	11.9	12.3
Oxidation (PA)	%	76	91	92	110



CONTAMINATION

Soot %	%	0	0	0.1	0.1
Nitration (PA)	%	81	88	93	94
Sulfation (PA)	%	58	66	67	75
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	11	8
Sodium	ppm	5	5	5	5
Potassium	ppm	<1	2	4	9



WEAR METALS

Iron	ppm	6	12	15	15
Copper	ppm	1	3	7	14
Lead	ppm	0	<1	1	3
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	1	2	4	4
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	61	57	66	58
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	830	844	944	888
Magnesium	ppm	1143	1126	1337	1118
Zinc	ppm	1227	1241	1408	1268
Phosphorus	ppm	1072	986	1207	959
Barium	ppm	0	0	<1	1
Boron	ppm	25	12	18	16

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: MODSTI
 Unique No: 5619462
 Signed: Wes Davis
 Report Date: 08 Aug 2023



GRAPHS

