

LIEBHERR

CONSTRUCTION EQUIPMENT



[(347076)] LIEBHERR L586 062518-1761 - Diesel Engine

Sample No: LH0269534

Oil Type: PETRO CANADA DURON UHP 5W30



SAMPLE INFORMATION

Sample Number	LH0269534	LH0234513	LH0238538	LH0224198
Sample Date	28 Aug 2023	17 Jan 2023	20 Aug 2022	30 Mar 2022
Machine Hours	7038	5327	4090	2924
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

MODERN CONSTRUCTION (1983) LTD.
 364 BRIGGS CROSS ROAD
 STILESVILLE, NB
 CA E1G 3G3
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OIL CONDITION

Visc @ 40°C	cSt	---	70.1	---	---
Visc @ 100°C	cSt	12.6	11.4	11.4	11.7
Viscosity Index (VI)	Scale	---	156	---	---
Oxidation (PA)	%	71	93	93	46



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	76	85	89	47
Sulfation (PA)	%	60	65	65	40
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	7	8	8
Sodium	ppm	2	5	5	4
Potassium	ppm	12	7	3	4



WEAR METALS

Iron	ppm	6	9	9	8
Copper	ppm	3	4	4	4
Lead	ppm	1	<1	2	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	5	4	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	63	62	59	59
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1068	863	861	838
Magnesium	ppm	1045	1115	1151	1194
Zinc	ppm	1242	1190	1264	1273
Phosphorus	ppm	1081	1051	1045	1101
Barium	ppm	0	0	0	<1
Boron	ppm	2	16	15	33

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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: 5632708
 Signed: Wes Davis
 Report Date: 31 Aug 2023



GRAPHS

