

LIEBHERR

CONSTRUCTION EQUIPMENT



056255-1007 - Diesel Engine

Sample No: LH0292219

Oil Type: PETRO CANADA 10W40



Sample Information

Sample Number	LH0292219	LH0270056	LH0235491	LH0133029
Sample Date	26 Jun 2024	14 Jul 2023	27 Jun 2022	24 Oct 2018
Machine Hours	17524	16930	0	142295
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

American Iron and Metal

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Oil Condition

Visc @ 100°C	cSt	13.1	12.9	13.0	11.8
Oxidation (PA)	%	58	58	59	59



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	1.1	1	0.5	4.1
Nitration (PA)	%	72	72	66	91
Sulfation (PA)	%	56	57	59	83
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	<1.0	<1.0	0.5
Silicon	ppm	5	6	7	9
Sodium	ppm	2	2	2	9
Potassium	ppm	3	2	1	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. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	11	12	9	57
Copper	ppm	4	6	6	339
Lead	ppm	0	<1	<1	9
Tin	ppm	<1	1	<1	3
Aluminum	ppm	2	2	1	4
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	55	59	58	21
Nickel	ppm	<1	0	0	0
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	1232	1136	1072	2250
Magnesium	ppm	865	982	974	380
Zinc	ppm	1211	1193	1186	1186
Phosphorus	ppm	990	1071	1005	962
Barium	ppm	0	0	0	<1
Boron	ppm	13	3	4	8

Depot: AMEMON
Unique No: 5802681
Signed: Wes Davis
Report Date: 03 Jul 2024



Graphs

