

LIEBHERR

CONSTRUCTION EQUIPMENT



[GREEN METALS] LIEBHERR A924C 073594 - Diesel Engine

Sample No: LH0274814

Oil Type: PETRO CANADA 10W30



SAMPLE INFORMATION

Sample Number	LH0274814	LH	LH	LH
Sample Date	12 Oct 2023	06 Jun 2022	19 Jan 2022	09 Aug 2021
Machine Hours	22130	20363	19940	19471
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

GREEN METALS CANADA

224 BEARDS LANE
WOODSTOCK, ON
CA N4S 7W3

Contact: Jamie Depotie
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OIL CONDITION

Visc @ 100°C	cSt	13.4	12.9	12.4	12.9
Oxidation (PA)	%	60	22	58	58



CONTAMINATION

Soot %	%	1.4	0	0.3	0.3
Nitration (PA)	%	68	28	60	59
Sulfation (PA)	%	58	40	55	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	6	6
Sodium	ppm	2	1	2	2
Potassium	ppm	0	<1	<1	<1



WEAR METALS

Iron	ppm	23	9	12	10
Copper	ppm	3	2	2	2
Lead	ppm	2	1	1	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	<1	1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	62	60	60	59
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1097	1048	1032	1057
Magnesium	ppm	999	1012	1009	996
Zinc	ppm	1231	1216	1194	1233
Phosphorus	ppm	1008	1095	1065	1073
Barium	ppm	<1	0	0	0
Boron	ppm	3	6	7	3

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.

Depot: GRE224WOO
Unique No: 5657951
Signed: Kevin Marson
Report Date: 16 Oct 2023



GRAPHS

