

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934 048907-1550 - Diesel Engine

Sample No: LH0281060

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0281060	LH0242061	LH0260443	LH0226689
Sample Date	24 Jan 2024	11 Oct 2023	07 Jul 2023	16 Mar 2023
Machine Hours	5470	4991	4540	4080
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

REGHEHR CONTRACTING

6547 MT. LEHMAN ROAD

ABBOTSFORD, BC

CA V4X 2G5

Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.3	13.2	13.3	13.0
Oxidation (PA)	%	62	62	63	69

T:

F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	64	63	63	73
Sulfation (PA)	%	52	52	51	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	9	6	7
Sodium	ppm	1	2	1	2
Potassium	ppm	<1	0	<1	<1

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	3	3	3	3
Copper	ppm	<1	1	1	1
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	<1	<1	2
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	58	58	56	59
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1060	1109	1016	1106
Magnesium	ppm	939	968	967	983
Zinc	ppm	1169	1221	1173	1212
Phosphorus	ppm	978	992	1037	1078
Barium	ppm	0	<1	0	<1
Boron	ppm	<1	2	1	2

Depot: REGABB

Unique No: 5721129

Signed: Bill Quesnel

Report Date: 30 Jan 2024



GRAPHS

