

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 074359-1760 - Diesel Engine

Sample No: LH0271281

Oil Type: PETRO CANADA 10W40



Sample Information

Sample Number	LH0271281	LH0281086	LH0271270	---
Sample Date	23 May 2024	10 Jan 2024	06 Nov 2023	---
Machine Hours	1428	0	562	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

RICHMOND STEEL RECYCLING
 11760 MITCHELL ROAD
 RICHMOND, BC
 CA V6V 1V8
 Contact: Aaron Kaetler
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 T:
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Oil Condition

Visc @ 100°C	cSt	13.5	13.7	11.7	---
Oxidation (PA)	%	61	67	204	---



Contamination

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	54	49	91	---
Sulfation (PA)	%	52	56	110	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	9	5	12	---
Sodium	ppm	1	1	2	---
Potassium	ppm	0	0	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	4	3	8	---
Copper	ppm	6	20	166	---
Lead	ppm	<1	<1	7	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	<1	2	3	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	57	55	44	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	0	3	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	1069	1033	1290	---
Magnesium	ppm	938	928	894	---
Zinc	ppm	1188	1110	839	---
Phosphorus	ppm	978	985	703	---
Barium	ppm	1	2	23	---
Boron	ppm	2	8	89	---

Depot: RIC117RIC
 Unique No: 5800046
 Signed: Wes Davis
 Report Date: 18 Jun 2024



Graphs

