

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 067666-1760 - Diesel Engine

Sample No: LH0176029

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH0176029	LH0234002	---	---
Sample Date	02 Aug 2023	15 Dec 2022	---	---
Machine Hours	1520	1018	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

WEST CARLETON SAND & GRAVEL INC.
 3232 CARP ROAD
 CARP, ON
 CA K0A 1L0
 Contact: Troy Whalen
 twhalen@acon.com
 T: (613)836-3090
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.1	11.3	---	---
Oxidation (PA)	%	55	83	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	51	62	---	---
Sulfation (PA)	%	53	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.9	---	---
Silicon	ppm	6	6	---	---
Sodium	ppm	2	2	---	---
Potassium	ppm	<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	4	6	---	---
Copper	ppm	7	23	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	<1	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	57	54	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1072	1115	---	---
Magnesium	ppm	979	926	---	---
Zinc	ppm	1185	1111	---	---
Phosphorus	ppm	1044	993	---	---
Barium	ppm	1	4	---	---
Boron	ppm	2	10	---	---

Depot: WES654STI
Unique No: 5629752
Signed: Wes Davis
Report Date: 18 Aug 2023



GRAPHS

