

LIEBHERR

CONSTRUCTION EQUIPMENT



[TECHNICORE] 116005 - Diesel Engine

Sample No: LH0270479

Oil Type: PETRO CANADA SUPREME 5W30



SAMPLE INFORMATION

Sample Number	LH0270479	LH0251740	---	---
Sample Date	27 Sep 2023	06 Apr 2023	---	---
Machine Hours	7090	6553	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
 Contact: Joseph Gillis
 joseph.gillis@liebherr.com
 T:
 F: (905)319-6622



OIL CONDITION

Visc @ 100°C	cSt	11.8	13.0	---	---
Oxidation (PA)	%	69	78	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	65	80	---	---
Sulfation (PA)	%	55	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	3	4	---	---
Sodium	ppm	7	1	---	---
Potassium	ppm	<1	0	---	---

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	6	---	---
Copper	ppm	1	3	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	60	59	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	944	1150	---	---
Magnesium	ppm	1074	966	---	---
Zinc	ppm	1226	1216	---	---
Phosphorus	ppm	1010	1101	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	39	3	---	---

Depot: LIEMIS
 Unique No: 5656174
 Signed: Wes Davis
 Report Date: 05 Oct 2023



GRAPHS

