

LIEBHERR

CONSTRUCTION EQUIPMENT



115070 - Diesel Engine

Sample No: LH0289453

Oil Type: PETRO CANADA SUPREME 5W30



Sample Information

Sample Number	LH0289453	LH0251627	---	---
Sample Date	04 Apr 2024	20 Jan 2023	---	---
Machine Hours	1813	836	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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Oil Condition

Visc @ 100°C	cSt	11.8	11.4	---	---
Oxidation (PA)	%	114	233	---	---



Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	108	123	---	---
Sulfation (PA)	%	73	120	---	---
Glycol	%	0.0	0.0	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	9	9	---	---
Sodium	ppm	4	2	---	---
Potassium	ppm	16	14	---	---

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	18	25	---	---
Copper	ppm	55	233	---	---
Lead	ppm	4	38	---	---
Tin	ppm	<1	3	---	---
Aluminum	ppm	4	3	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	52	46	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	1144	1407	---	---
Magnesium	ppm	977	945	---	---
Zinc	ppm	1182	843	---	---
Phosphorus	ppm	948	745	---	---
Barium	ppm	6	44	---	---
Boron	ppm	12	54	---	---

Depot: LIEMIS
 Unique No: 5760737
 Signed: Kevin Marson
 Report Date: 09 Apr 2024



Graphs

