

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 71616 - Diesel Engine

Sample No: LH0296396

Oil Type: PETRO CANADA SUPREME 5W30



#### Sample Information

Sample Number	LH0296396	LH0278696	LH0270318	---
Sample Date	07 Jul 2024	22 Feb 2024	25 Sep 2023	---
Machine Hours	7132	5129	2888	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

**LIEBHERR CANADA LTD.**  
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#### Oil Condition

Visc @ 100°C	cSt	14.1	13.6	13.5	---
Oxidation (PA)	%	74	66	63	---



#### Contamination

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	70	63	55	---
Sulfation (PA)	%	57	54	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	8	5	---
Sodium	ppm	2	1	2	---
Potassium	ppm	2	2	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. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	4	4	4	---
Copper	ppm	1	1	5	---
Lead	ppm	<1	<1	1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	1	2	<1	---
Chromium	ppm	<1	<1	0	---
Molybdenum	ppm	47	53	59	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



#### Additives

Calcium	ppm	1267	1188	1047	---
Magnesium	ppm	785	883	965	---
Zinc	ppm	1221	1176	1181	---
Phosphorus	ppm	988	1003	975	---
Barium	ppm	0	0	<1	---
Boron	ppm	23	16	4	---

Depot: LIEMIS  
 Unique No: 5811642  
 Signed: Kevin Marson  
 Report Date: 08 Jul 2024



### Graphs

