

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R945 055788-1866 - Diesel Engine

Sample No: LH0265570

Oil Type: PETRO CANADA SUPREME 5W30



#### SAMPLE INFORMATION

Sample Number	LH0265570	LH0250745	---	---
Sample Date	23 Aug 2023	07 Mar 2023	---	---
Machine Hours	967	500	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**American Iron and Metal**  
 997 CARPIN BEACH RD  
 SAULT ST MARIE, ON  
 CA P6A 6K4  
 Contact: Service Manager



#### OIL CONDITION

Visc @ 100°C	cSt	11.7	11.8	---	---
Oxidation (PA)	%	110	214	---	---

T:  
F:



#### CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	93	108	---	---
Sulfation (PA)	%	70	118	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	9	---	---
Sodium	ppm	4	2	---	---
Potassium	ppm	3	4	---	---

#### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	11	14	---	---
Copper	ppm	64	173	---	---
Lead	ppm	2	7	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	58	45	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	916	1494	---	---
Magnesium	ppm	1075	897	---	---
Zinc	ppm	1113	833	---	---
Phosphorus	ppm	960	734	---	---
Barium	ppm	5	27	---	---
Boron	ppm	31	93	---	---

**Depot:** AIMS AU  
**Unique No:** 5643769  
**Signed:** Kevin Marson  
**Report Date:** 15 Sep 2023



### GRAPHS

