

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 054897-1650 - Diesel Engine

Sample No: LH0292409

Oil Type: PETRO CANADA SUPREME SYNTHETIC 5W40



#### Information sur l'échantillon

Numéro d'échant.	LH0292409	LH0243062	---	---
Date d'échant.	18 Jun 2024	17 Jan 2023	---	---
Heures de la Machine	1937	641	---	---
Heures de l'huile	0	0	---	---
Huile changée	Changed	Changed	---	---
Statut de l'échant.	NORMAL	NORMAL	---	---

**Delsan - American Iron and Metal**  
 2187 Montee Masson  
 Laval, QC  
 CA H7B 0A6  
 Contact: MANNY MARQUES  
 mmarques@delsan-aim.com  
 T:  
 F:



#### État d'huile

Visc 40°C	cSt	---	72.7	---	---
Visc 100°C	cSt	13.2	12.0	---	---
Indice de viscosité (VI)	Scale	---	161	---	---
Oxydation (PA)	%	81	187	---	---

#### Diagnostic

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



#### Contamination

Eau	%	NEG	NEG	---	---
% de suie	%	0	0	---	---
Nitration (PA)	%	76	98	---	---
Sulfatation (PA)	%	65	103	---	---
Glycol	%	NEG	NEG	---	---
Essence	%	<1.0	<1.0	---	---
Silicium	ppm	7	27	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	8	4	---	---



#### Métaux d'usure

Fer	ppm	11	11	---	---
Cuivre	ppm	6	225	---	---
Plomb	ppm	0	8	---	---
Étain	ppm	0	1	---	---
Aluminium	ppm	4	3	---	---
Chrome	ppm	<1	<1	---	---
Molybdène	ppm	9	39	---	---
Nickel	ppm	<1	<1	---	---
Titane	ppm	<1	<1	---	---
Argent	ppm	0	0	---	---
Manganèse	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



#### Additifs

Calcium	ppm	1826	1542	---	---
Magnésium	ppm	219	799	---	---
Zinc	ppm	1109	948	---	---
Phosphore	ppm	908	837	---	---
Baryum	ppm	<1	35	---	---
Bore	ppm	98	55	---	---

**Depot:** DEL782MON  
**Unique No:** 5801641  
**Signed:** Wes Davis  
**Report Date:** 26 Jun 2024



### Graphs

