

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR PR766 024157-1681 - Diesel Engine

Sample No: LH0269726

Oil Type: DIESEL ENGINE OIL SAE 40



#### SAMPLE INFORMATION

Sample Number	LH0269726	LH0269746	---	---
Sample Date	23 Oct 2023	04 Aug 2023	---	---
Machine Hours	944	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ABNORMAL	SEVERE	---	---

**NUTRIEN CORY POTASH**  
 12KM WEST OF SASKATOON HWY #7  
 SASKATOON, SK  
 CA S7K 3L6  
 Contact: Service Manager



#### OIL CONDITION

Visc @ 100°C	cSt	11.8	13.8	---	---
Oxidation (PA)	%	67	69	---	---

T:  
F:



#### CONTAMINATION

Water	%	NEG	0.332	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	53	66	---	---
Sulfation (PA)	%	55	57	---	---
Glycol	%	NEG	0.0	---	---
Fuel	%	0.7	<1.0	---	---
Silicon	ppm	8	84	---	---
Sodium	ppm	5	656	---	---
Potassium	ppm	4	476	---	---

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	8	128	---	---
Copper	ppm	11	160	---	---
Lead	ppm	1	35	---	---
Tin	ppm	<1	6	---	---
Aluminum	ppm	1	36	---	---
Chromium	ppm	0	4	---	---
Molybdenum	ppm	50	4	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	2	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	3	---	---
Vanadium	ppm	0	<1	---	---



#### ADDITIVES

Calcium	ppm	880	2027	---	---
Magnesium	ppm	1073	117	---	---
Zinc	ppm	1145	982	---	---
Phosphorus	ppm	994	923	---	---
Barium	ppm	7	1	---	---
Boron	ppm	67	10	---	---

Depot: NUT12SAS  
 Unique No: 5683846  
 Signed: Kevin Marson  
 Report Date: 28 Nov 2023



### GRAPHS

