

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 1253-145780 - Diesel Engine

Sample No: LH0276605

Oil Type: PETRO CANADA DURON UHP 10W40



#### SAMPLE INFORMATION

Sample Number	LH0276605	LH0276602	---	---
Sample Date	07 Feb 2024	01 Oct 2023	---	---
Machine Hours	1023	520	---	---
Oil Hours	0	520	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

#### TRAM CONSTRUCTION

9279 E KY 8  
GARRISON, KY  
US 41141  
Contact: Service Manager



#### OIL CONDITION

Visc @ 100°C	cSt	10.9	11.5	---	---
Base Number (BN)	mg KOH/g	8.4	3.8	---	---
Oxidation (PA)	%	92	211	---	---

T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	82	101	---	---
Sulfation (PA)	%	58	110	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	1.4	<1.0	---	---
Silicon	ppm	7	10	---	---
Sodium	ppm	0	0	---	---
Potassium	ppm	2	5	---	---

#### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



#### WEAR METALS

Iron	ppm	5	15	---	---
Copper	ppm	43	276	---	---
Lead	ppm	<1	3	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	2	4	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	48	47	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	1302	1347	---	---
Magnesium	ppm	874	914	---	---
Zinc	ppm	882	886	---	---
Phosphorus	ppm	732	746	---	---
Barium	ppm	16	36	---	---
Boron	ppm	107	92	---	---

Depot: TRAGARLH  
Unique No: 10873997  
Signed: Don Baldrige  
Report Date: 14 Feb 2024



### GRAPHS

