

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 1253-146764 - Diesel Engine

Sample No: LH0276518

Oil Type: PETRO CANADA DURON UHP 5W30



Sample Information

Sample Number	LH0276518	LH0276506	LH0276509	---
Sample Date	30 May 2024	01 Mar 2024	08 Feb 2024	---
Machine Hours	1548	500	1019	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ATTENTION	---

TRAM CONSTRUCTION

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



Oil Condition

Visc @ 100°C	cSt	10.9	11.4	11.2	---
Base Number (BN)	mg KOH/g	8.5	5.2	7.8	---
Oxidation (PA)	%	86	191	101	---

T:
F:



Contamination

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	83	98	83	---
Sulfation (PA)	%	55	104	62	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.4	---
Silicon	ppm	6	10	7	---
Sodium	ppm	3	0	0	---
Potassium	ppm	3	5	<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. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Wear Metals

Iron	ppm	<1	11	6	---
Copper	ppm	13	244	72	---
Lead	ppm	0	3	1	---
Tin	ppm	0	1	<1	---
Aluminum	ppm	<1	3	1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	43	45	47	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	<1	<1	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	1358	1309	1315	---
Magnesium	ppm	868	889	868	---
Zinc	ppm	834	857	864	---
Phosphorus	ppm	691	699	634	---
Barium	ppm	<1	29	6	---
Boron	ppm	107	91	86	---

Depot: TRAGARLH
Unique No: 11076921
Signed: Don Baldrige
Report Date: 17 Jun 2024



Graphs

