

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 110456-1216 - Front Differential

Sample No: LH0277119

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



J.D. Irving
 Truro Sawmill, 529 Valley Dale Road
 Truro, NS
 CA B2N 5C5
 Contact: Sheldon Richardson
 richardson.sheldon@jdirving.com
 T: (902)890-9419
 F:



SAMPLE INFORMATION

Sample Number	LH0277119	LH0234610	LH0246698	LH0230481
Sample Date	13 Oct 2023	01 Apr 2023	15 Dec 2022	25 Apr 2022
Machine Hours	17581	16012	0	13977
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	105	105	80.5	106
Visc @ 100°C	cSt	---	---	12.6	---
Viscosity Index (VI)	Scale	---	---	155	---



CONTAMINATION

Silicon	ppm	2	2	4	2
Sodium	ppm	<1	1	1	0
Potassium	ppm	0	0	<1	0



WEAR METALS

Iron	ppm	4	2	18	2
Copper	ppm	2	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	12	17	54	9
Magnesium	ppm	1	2	14	6
Zinc	ppm	17	11	194	12
Phosphorus	ppm	1242	1341	1138	1279
Barium	ppm	<1	0	0	0
Boron	ppm	316	322	233	315

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 condition of the oil is acceptable for the time in service.

Depot: JDITRU
 Unique No: 5668212
 Signed: Wes Davis
 Report Date: 23 Oct 2023

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GRAPHS

