

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR 049819 - Front Differential

Sample No: LH0270358

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0270358	LH0251892	---	---
Sample Date	31 Jul 2023	19 Jan 2023	---	---
Machine Hours	10944	10083	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

MONAGHAN MUSHROOMS LTD
 7345 GUELPH LINE
 CAMPBELLVILLE, ON
 CA L0P 1B0
 Contact: Steven Cargill
 s.cargill@monaghan-mushrooms.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	113	190	---	---
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CONTAMINATION

Silicon	ppm	6	6	---	---
Sodium	ppm	4	5	---	---
Potassium	ppm	<1	<1	---	---



WEAR METALS

Iron	ppm	148	167	---	---
Copper	ppm	126	140	---	---
Lead	ppm	3	3	---	---
Tin	ppm	14	13	---	---
Aluminum	ppm	1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	3	4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	8	3	---	---
Magnesium	ppm	2	<1	---	---
Zinc	ppm	40	40	---	---
Phosphorus	ppm	2787	2423	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	187	2	---	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Copper and tin ppm levels are abnormal. Thrust washer and/or bearing/bushing wear is indicated. There is a moderate concentration of water present in the oil. Free water present. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: MONCAM
 Unique No: 5618880
 Signed: Kevin Marson
 Report Date: 03 Aug 2023



GRAPHS

