

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 094197-1216 - Rear Differential

Sample No: LH0284143

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



INDUSTRIES GDS INC.
 207 ROUTE 295
 VILLE-DEGELIS, QC
 CA G5T 1R1
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SAMPLE INFORMATION

Sample Number	LH0284143	LH0270004	LH0251219	LH0225157
Sample Date	18 Mar 2024	01 Nov 2023	13 Mar 2023	06 Oct 2022
Machine Hours	25297	23554	22266	21039
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	190	181	160	180



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	4	5	1
Sodium	ppm	1	2	1	3
Potassium	ppm	0	0	<1	0



WEAR METALS

Iron	ppm	11	21	19	22
Copper	ppm	2	3	3	4
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	8	12	43	5
Magnesium	ppm	<1	<1	1	0
Zinc	ppm	8	11	42	6
Phosphorus	ppm	2278	2432	2242	2445
Barium	ppm	0	<1	0	0
Boron	ppm	0	2	3	2

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: INDVIL
 Unique No: 5748940
 Signed: Wes Davis
 Report Date: 21 Mar 2024



GRAPHS

