LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 112359-1216 - Rear Differential

Sample No: LH0224995

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

SAMPLE INFORMATION

Sample Number		**LH0224995**	LH0221781	LH0151069	LH0194356
Sample Date		**24 May 2023**	02 Nov 2022	17 Feb 2022	18 Aug 2021
Machine Hours		**6000**	5107	4009	3017
Oil Hours		**0**	0	0	0
Oil Changed		**N/A**	Changed	Changed	Changed
Sample Status		**NORMAL**	NORMAL	ABNORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	🟢 **102**	🟢 108	176	100

CONTAMINATION

Silicon	ppm	🟢 **4**	🟢 4	🟢 1	🟢 2
Sodium	ppm	🟢 **1**	🟢 4	🟢 3	🟢 <1
Potassium	ppm	🟢 **2**	🟢 <1	🟢 <1	🟢 <1

WEAR METALS

Iron	ppm	🟢 **15**	🟢 34	🟢 19	🟢 10
Copper	ppm	🟢 **8**	🟢 16	🟢 10	🟢 28
Lead	ppm	🟢 **0**	🟢 <1	🟢 0	🟢 <1
Tin	ppm	🟢 **0**	🟢 0	🟢 <1	🟢 <1
Aluminum	ppm	🟢 **<1**	🟢 <1	🟢 0	🟢 <1
Chromium	ppm	🟢 **0**	🟢 0	🟢 0	🟢 0
Molybdenum	ppm	🟢 **0**	🟢 0	🟢 0	🟢 <1
Nickel	ppm	🟢 **<1**	🟢 <1	🟢 <1	🟢 <1
Titanium	ppm	**0**	0	0	0
Silver	ppm	**0**	0	0	🟢 <1
Manganese	ppm	🟢 **<1**	🟢 1	🟢 <1	🟢 <1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	🟢 **22**	🟢 4	🟢 5	🟢 13
Magnesium	ppm	🟢 **2**	🟢 <1	🟢 <1	🟢 <1
Zinc	ppm	🟢 **25**	🟢 12	🟢 10	21
Phosphorus	ppm	🟢 **1328**	🟢 1607	2261	1499
Barium	ppm	🟢 **0**	🟢 0	🟢 <1	🟢 0
Boron	ppm	🟢 **261**	🟢 186	28	236

RICHMOND STEEL
12707 170 STREET
EDMONTON, AB
CA T5V 1L9
Contact: Sandor Arguello

T: (780)447-3391
F:

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:	RICEDM
Unique No:	5580636
Signed:	Wes Davis
Report Date:	25 May 2023

LIEBHERR
CONSTRUCTION EQUIPMENT

⚙ GRAPHS

Iron (ppm)

Lead (ppm)

Aluminum (ppm)

Chromium (ppm)

Copper (ppm)

Silicon (ppm)

Viscosity @ 40°C

Additives

legend:
- calcium
- phosphorus
- zinc