

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 112359-1216 - Rear Right Wheel Hub

Sample No: LH0225061

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0225061	LH0221783	LH0151057	LH0194351
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	ABNORMAL	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 40°C	cSt	101	108	176	101
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T: (780)447-3391
F:



CONTAMINATION

Silicon	ppm	2	5	2	2
Sodium	ppm	<1	4	3	1
Potassium	ppm	2	1	<1	<1

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.



WEAR METALS

Iron	ppm	15	37	30	10
Copper	ppm	8	15	11	26
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	<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	23	5	6	9
Magnesium	ppm	2	1	<1	<1
Zinc	ppm	25	12	11	18
Phosphorus	ppm	1344	1618	2269	1493
Barium	ppm	0	0	<1	0
Boron	ppm	265	184	28	233

Depot: RICEDM
Unique No: 5580641
Signed: Wes Davis
Report Date: 25 May 2023



GRAPHS

