

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 086015-1203 - Rear Left Wheel Hub

Sample No: LH0278350

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0278350	LH0234503	LH0194935	LH0132716
Sample Date	28 Nov 2023	27 Jun 2022	31 Aug 2021	09 Jun 2020
Machine Hours	20736	17693	15995	14601
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Dartmouth Metals & Bottle Ltd.
 14 Dawn Drive
 Dartmouth, NS
 CA B3B 1H9
 Contact: Service



OIL CONDITION

Visc @ 40°C	cSt	93.2	105	93.7	84.9
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	2	2	2
Sodium	ppm	2	<1	<1	2
Potassium	ppm	<1	<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	7	14	22	49
Copper	ppm	<1	<1	3	9
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	10	<1	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	155	8	8	33
Magnesium	ppm	185	3	1	2
Zinc	ppm	223	10	6	19
Phosphorus	ppm	1168	1178	1296	1342
Barium	ppm	0	0	0	<1
Boron	ppm	252	301	322	304

Depot: DAR14DAR
Unique No: 5709015
Signed: Kevin Marson
Report Date: 11 Jan 2024



GRAPHS

