LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 097459-1216 - Front Left Wheel Hub

Sample No: LH0180237

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

SAMPLE INFORMATION

Sample Number		**LH0180237**	LH	LH0139124	LH0136434
Sample Date		**06 Oct 2020**	07 Jul 2020	01 Mar 2020	08 Nov 2019
Machine Hours		**0**	0	13987	12594
Oil Hours		**0**	0	0	1000
Oil Changed		**Changed**	Changed	Changed	Changed
Sample Status		**NORMAL**	ABNORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	● **94.4**	● 86.2	● 88.6	● 90.0

CONTAMINATION

Silicon	ppm	● **3**	● 2	● 3	● 2
Sodium	ppm	● **2**	● <1	● <1	● <1
Potassium	ppm	● **<1**	● 1	● <1	● <1

WEAR METALS

Iron	ppm	● **42**	● 28	● 52	● 33
Copper	ppm	● **14**	● 11	● 12	● 14
Lead	ppm	● **<1**	● <1	● <1	● <1
Tin	ppm	● **0**	● <1	● 0	● 0
Aluminum	ppm	● **<1**	● <1	● <1	● <1
Chromium	ppm	● **<1**	● 0	● <1	● <1
Molybdenum	ppm	● **<1**	● <1	● <1	● <1
Nickel	ppm	● **0**	● 0	● <1	● <1
Titanium	ppm	**0**	0	0	0
Silver	ppm	● **<1**	● 0	● <1	● <1
Manganese	ppm	● **<1**	● <1	● <1	● <1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**27**	● 34	● 53	● 68
Magnesium	ppm	● **3**	● 4	● 4	● 2
Zinc	ppm	**21**	● 26	● 36	● 32
Phosphorus	ppm	● **1236**	● 1246	● 1295	● 1284
Barium	ppm	● **0**	● 0	● 0	● 0
Boron	ppm	● **309**	● 305	● 328	● 327

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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:	JDITRU
Unique No:	5122512
Signed:	Wes Davis
Report Date:	22 Oct 2020

⚙ GRAPHS

Iron (ppm)

Lead (ppm)

Aluminum (ppm)

Chromium (ppm)

Copper (ppm)

Silicon (ppm)

Viscosity @ 40°C

Additives