

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 110456-1216 - Transmission (Manual)

Sample No: LH0278428

Oil Type: PETRO CANADA DURON HP 15W40



#### SAMPLE INFORMATION

Sample Number	LH0278428	LH0277121	LH0234604	LH0246693
Sample Date	29 Jan 2024	13 Oct 2023	01 Apr 2023	15 Dec 2022
Machine Hours	18585	17581	16012	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

J.D. Irving

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#### OIL CONDITION

Visc @ 40°C	cSt	71.1	69.7	70.8	56.3



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	8	4	7
Sodium	ppm	2	2	2	4
Potassium	ppm	<1	<1	<1	1

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the fluid is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	22	31	28	138
Copper	ppm	3	5	4	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	2	2	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	55	51	38	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	1	2	8
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	1250	1351	1526	3446
Magnesium	ppm	888	804	607	7
Zinc	ppm	1232	1226	1153	1332
Phosphorus	ppm	1127	1165	1153	1176
Barium	ppm	0	<1	0	2
Boron	ppm	18	34	46	102

Depot: JDITRU  
Unique No: 5723787  
Signed: Kevin Marson  
Report Date: 12 Feb 2024



### GRAPHS

