

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(355228)] LIEBHERR LH60M 114198-1217 - Slewing Gearbox

Sample No: LH0194408

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



#### SAMPLE INFORMATION

Sample Number	LH0194408	LH0269776	LH0225070	LH0221830
Sample Date	22 Sep 2023	22 Sep 2023	10 Feb 2023	08 Mar 2022
Machine Hours	7326	7355	4980	1030
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

**AltaSteel**  
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 Edmonton, AB  
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#### OIL CONDITION

Visc @ 40°C	cSt	105	107	95.8	182
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#### CONTAMINATION

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



#### WEAR METALS

Element	ppm	0	---	---	---
PQ		0	---	---	---
Iron	ppm	863	294	56	73
Copper	ppm	115	39	28	21
Lead	ppm	3	1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	5	2	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	<1
Manganese	ppm	6	2	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Element	ppm	9	9	17	18
Calcium	ppm	9	9	17	18
Magnesium	ppm	1	1	2	3
Zinc	ppm	16	9	19	11
Phosphorus	ppm	1246	1216	1228	2392
Barium	ppm	<1	<1	0	2
Boron	ppm	169	265	243	4

#### Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Test values may be askew due high concentration of free water present in sample. Chromium, copper and iron ppm levels are abnormal. Gear wear is indicated. Free water present. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** ALT940EDM  
**Unique No:** 5646745  
**Signed:** Kevin Marson  
**Report Date:** 02 Oct 2023



### GRAPHS

