

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 041151-1148 - Swing Drive

Sample No: LH

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### SAMPLE INFORMATION

Sample Number	LH	LH0242430	LH0133569	LH0108326
Sample Date	03 Nov 2023	04 Nov 2022	18 Oct 2018	20 Nov 2017
Machine Hours	8835	8193	4007	2900
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	SEVERE

**Delsan - American Iron and Metal**  
 2187 Montee Masson  
 Laval, QC  
 CA H7B 0A6  
 Contact: MANNY MARQUES  
 mmarques@delsan-aim.com  
 T:  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	106	107	103	102
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#### CONTAMINATION

Water	%	0.523	---	0.111	2.469
Silicon	ppm	2	5	4	4
Sodium	ppm	1	2	2	0
Potassium	ppm	0	0	0	1



#### WEAR METALS

PQ		---	0	10	0
Iron	ppm	77	1283	1315	1021
Copper	ppm	34	250	210	148
Lead	ppm	1	7	6	4
Tin	ppm	0	<1	2	2
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	17	14	12
Molybdenum	ppm	0	<1	2	<1
Nickel	ppm	0	1	2	2
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	12	10	8
Vanadium	ppm	0	<1	0	<1



#### ADDITIVES

Calcium	ppm	14	14	37	16
Magnesium	ppm	3	2	2	1
Zinc	ppm	17	21	34	18
Phosphorus	ppm	1258	1274	1296	1269
Barium	ppm	<1	0	0	0
Boron	ppm	218	172	108	83

#### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: DEL782MON  
 Unique No: 5671372  
 Signed: Kevin Marson  
 Report Date: 08 Nov 2023



### GRAPHS

