

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A924C064062-1049 - Swing Drive

Sample No: LH0261038

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



**MARCEL DUVAL FER ET METAUX INC.**  
661 RANG STE-MARIE  
ST. SEBASTIEN, QC  
CA J0J 2C0  
Contact: Service Manager



#### SAMPLE INFORMATION

Sample Number	LH0261038	LH	LH0151496	LH0133191
Sample Date	14 Jun 2023	06 Aug 2021	22 Aug 2019	10 Oct 2018
Machine Hours	13298	11114	8655	7353
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### OIL CONDITION

Visc @ 40°C	cSt	172	181	99.2	90.7
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T:  
F:



#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	52	33	18	70
Copper	ppm	31	9	9	32
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	17	8	4	20
Magnesium	ppm	<1	0	<1	<1
Zinc	ppm	18	32	5	14
Phosphorus	ppm	2177	2364	1512	1386
Barium	ppm	0	<1	<1	<1
Boron	ppm	29	24	250	246

#### 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. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: MARSTS  
Unique No: 5604410  
Signed: Wes Davis  
Report Date: 29 Jun 2023



### GRAPHS

