

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[569848]] LIEBHERR HS835 182294 - 2 Winch

Sample No: LH0266100

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### SAMPLE INFORMATION

Sample Number	LH0266100	---	---	---
Sample Date	21 Jul 2023	---	---	---
Machine Hours	21025	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



#### OIL CONDITION

Visc @ 40°C	cSt	● 89.8	---	---	---
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T: (519)631-4095

F: (519)631-2745



#### CONTAMINATION

Silicon	ppm	● 13	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● <1	---	---	---

#### Diagnosis

We advise that you check for visible metal particles in the oil. 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. Moderate concentration of visible metal present. Gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



#### WEAR METALS

PQ		● 36	---	---	---
Iron	ppm	● 189	---	---	---
Copper	ppm	● <1	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	● 3	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	● 34	---	---	---
Magnesium	ppm	● 3	---	---	---
Zinc	ppm	● 39	---	---	---
Phosphorus	ppm	● 1383	---	---	---
Barium	ppm	● 2	---	---	---
Boron	ppm	● 252	---	---	---

Depot: HIGSTT

Unique No: 5618115

Signed: Kevin Marson

Report Date: 02 Aug 2023



### GRAPHS

