

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS8100 184947 - 2 Winch

Sample No: LH0296498

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



Sample Information

Sample Number	LH0296498	LH0235034	LH0134160	---
Sample Date	01 Jul 2024	08 Jul 2022	12 Oct 2018	---
Machine Hours	0	11198	2604	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	SEVERE	ABNORMAL	---

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



Oil Condition

Visc @ 40°C	cSt	89.9	95.4	89.8	---
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T: (519)631-4095

F: (519)631-2745



Contamination

Water	%	0.179	0.405	0.204	---
Silicon	ppm	2	8	3	---
Sodium	ppm	1	2	<1	---
Potassium	ppm	<1	1	<1	---

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. The water content is negligible. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



Wear Metals

PQ		7	0	---	---
Iron	ppm	218	621	143	---
Copper	ppm	16	17	20	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	3	9	1	---
Molybdenum	ppm	<1	<1	<1	---
Nickel	ppm	1	2	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	6	1	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	29	17	13	---
Magnesium	ppm	13	2	5	---
Zinc	ppm	41	90	73	---
Phosphorus	ppm	727	1288	1193	---
Barium	ppm	<1	0	<1	---
Boron	ppm	25	198	200	---

Depot: HIGSTT

Unique No: 5802486

Signed: Kevin Marson

Report Date: 03 Jul 2024



Graphs

