

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS8100 184947 - 1 Winch

Sample No: LH0296499

Oil Type: PETRO CANADA TRAXON SYNTHETIC 75W90



Sample Information

Sample Number	LH0296499	LH0235035	LH0133633	---
Sample Date	01 Jul 2024	08 Jul 2022	12 Oct 2018	---
Machine Hours	0	11198	2504	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



Oil Condition

Visc @ 40°C	cSt	87.8	105	87.6	---
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T: (519)631-4095

F: (519)631-2745



Contamination

Water	%	0.053	NEG	NEG	---
Silicon	ppm	1	<1	2	---
Sodium	ppm	1	<1	<1	---
Potassium	ppm	<1	0	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

Iron	ppm	37	1	59	---
Copper	ppm	9	<1	4	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	0	0	<1	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	9	9	14	---
Magnesium	ppm	2	1	4	---
Zinc	ppm	22	15	18	---
Phosphorus	ppm	729	1215	1184	---
Barium	ppm	0	0	0	---
Boron	ppm	48	294	277	---

Depot: HIGSTT

Unique No: 5802489

Signed: Wes Davis

Report Date: 03 Jul 2024



Graphs

