

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR 185289 - 1 Winch

Sample No: LH0270277

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



Sample Information

Sample Number	LH0270277	LH0194890	---	---
Sample Date	29 Sep 2023	12 Jan 2022	---	---
Machine Hours	3024	1043	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

Harbour Development

380 Bayside Dr
St John, NB
CA E2J 4Y8
Contact: Darien Edison
edison.darien@harbourdev.com
T:
F:



Oil Condition

Visc @ 40°C	cSt	● 100	● 225	---	---
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Contamination

Water	%	● 0.101	NEG	---	---
Silicon	ppm	● <1	● 1	---	---
Sodium	ppm	● 1	● <1	---	---
Potassium	ppm	● <1	● <1	---	---



Wear Metals

Iron	ppm	● 9	● 37	---	---
Copper	ppm	● 6	● 4	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	0	● 0	---	---
Aluminum	ppm	● 0	● <1	---	---
Chromium	ppm	● 0	● <1	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● <1	● <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● 0	● <1	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	● 17	● 64	---	---
Magnesium	ppm	● 3	● <1	---	---
Zinc	ppm	● 30	● 86	---	---
Phosphorus	ppm	● 1151	424	---	---
Barium	ppm	● <1	● <1	---	---
Boron	ppm	● 257	5	---	---

Diagnosis

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. The condition of the oil is acceptable for the time in service.

Depot: HAR380STJ
Unique No: 5656335
Signed: Wes Davis
Report Date: 06 Oct 2023



Graphs

