

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR 185289 - 2 Winch

Sample No: LH0270281

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



Sample Information

Sample Number	LH0270281	LH0194891	---	---
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	● 130	● 190	---	---
-------------	-----	-------	-------	-----	-----



Contamination

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

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	● 43	● 1	---	---
Copper	ppm	● 14	● <1	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● <1	0	---	---
Molybdenum	ppm	● 0	● 0	---	---
Nickel	ppm	● <1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	● 0	● 0	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	● 45	● 14	---	---
Magnesium	ppm	● 2	● <1	---	---
Zinc	ppm	● 45	● 78	---	---
Phosphorus	ppm	● 859	179	---	---
Barium	ppm	● <1	● <1	---	---
Boron	ppm	● 162	2	---	---

Depot: HAR380STJ
 Unique No: 5656336
 Signed: Wes Davis
 Report Date: 05 Oct 2023



Graphs

