

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR 134249 - Boom Winch

Sample No: LH0286369

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



Sample Information

Sample Number	LH0286369	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	4909	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

WARD AND BURKE MICROTUNNELLING LTD
 9279 BARLOW TRAIL SE
 CALGARY, AB
 CA T2C 2N8
 Contact: Service Manager
 canadainfo@wardandburke.com
 T:
 F:



Oil Condition

Visc @ 40°C	cSt	● 214	---	---	---
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Contamination

Water	%	● 0.005	---	---	---
Silicon	ppm	● <1	---	---	---
Sodium	ppm	● <1	---	---	---
Potassium	ppm	● <1	---	---	---



Wear Metals

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



Additives

Calcium	ppm	● 64	---	---	---
Magnesium	ppm	● 1	---	---	---
Zinc	ppm	● 308	---	---	---
Phosphorus	ppm	● 274	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 2	---	---	---

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. Viscosity of sample indicates oil is within ISO 220 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot: WARCAL
 Unique No: 5776492
 Signed: Kevin Marson
 Report Date: 15 May 2024



Graphs

