

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 111446 - Kelly Winch

Sample No: LH0151092

Oil Type: SAE 75W90



#### SAMPLE INFORMATION

Sample Number	LH0151092	---	---	---
Sample Date	04 Jan 2024	---	---	---
Machine Hours	1000	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

#### Liebherr Canada

140 - 21320 Gordon Way

Richmond, BC

CA V6W 1J8

Contact: Kendra Curtis

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#### OIL CONDITION

Visc @ 40°C	cSt	153	---	---	---
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#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	19	---	---	---
Copper	ppm	<1	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	77	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	32	---	---	---
Phosphorus	ppm	1121	---	---	---
Barium	ppm	1	---	---	---
Boron	ppm	158	---	---	---

#### 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. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: LIERIC

Unique No: 5709030

Signed: Kevin Marson

Report Date: 11 Jan 2024



### GRAPHS

