

LIEBHERR

CONSTRUCTION EQUIPMENT



[MARATHON] LIEBHERR HS855 184576 - 1 Winch

Sample No: LH0296760

Oil Type: GEAR OIL SAE 75W90



LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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Sample Information

Sample Number	LH0296760	---	---	---
Sample Date	27 Jun 2024	---	---	---
Machine Hours	25032	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



Oil Condition

Visc @ 40°C	cSt	● 89.7	---	---	---
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Contamination

Water	%	NEG	---	---	---
Silicon	ppm	● 12	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● 2	---	---	---



Wear Metals

Iron	ppm	● 88	---	---	---
Copper	ppm	● 2	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	● 4	---	---	---
Chromium	ppm	● 1	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	0	---	---	---



Additives

Calcium	ppm	● 19	---	---	---
Magnesium	ppm	● 5	---	---	---
Zinc	ppm	● 11	---	---	---
Phosphorus	ppm	385	---	---	---
Barium	ppm	● 1	---	---	---
Boron	ppm	● 23	---	---	---

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.

Depot: LIEMIS
 Unique No: 5802495
 Signed: Wes Davis
 Report Date: 02 Jul 2024



Graphs

