

LIEBHERR

CONSTRUCTION EQUIPMENT



[KELLER] 115479 - Kelly Winch

Sample No: LH0286518

Oil Type: GEAR OIL ISO 220



SAMPLE INFORMATION

Sample Number	LH0286518	---	---	---
Sample Date	14 Mar 2024	---	---	---
Machine Hours	493	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
 Contact: Steve Lehto
 steve.lehto@liebherr.com
 T: (905)319-9222
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OIL CONDITION

Visc @ 40°C	cSt	● 225	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 6	---	---	---
Sodium	ppm	● 1	---	---	---
Potassium	ppm	● <1	---	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 220. Please confirm.



WEAR METALS

Iron	ppm	● 26	---	---	---
Copper	ppm	● <1	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	0	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● <1	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 0	---	---	---
Vanadium	ppm	0	---	---	---

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.



ADDITIVES

Calcium	ppm	● 50	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 25	---	---	---
Phosphorus	ppm	● 404	---	---	---
Barium	ppm	● 2	---	---	---
Boron	ppm	● 24	---	---	---

Depot: LIEMIS
 Unique No: 5747555
 Signed: Wes Davis
 Report Date: 15 Mar 2024



GRAPHS

