

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R924 041668-1318 - Slewing Gearbox

Sample No: LH0135478

Oil Type: PETRO CANADA 85W90



Norstone Excavating
 2239 - 165 Street
 Surrey, BC
 CA V3Z 0L8
 Contact: Gerrard White
 gerrardbwhite@gmail.com
 T:
 F:



SAMPLE INFORMATION

Sample Number	LH0135478	---	---	---
Sample Date	26 Sep 2023	---	---	---
Machine Hours	3700	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 186	---	---	---
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CONTAMINATION

Silicon	ppm	● 2	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● <1	---	---	---



WEAR METALS

Iron	ppm	● 428	---	---	---
Copper	ppm	● 134	---	---	---
Lead	ppm	● 4	---	---	---
Tin	ppm	● 23	---	---	---
Aluminum	ppm	<1	---	---	---
Chromium	ppm	● 4	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 7	---	---	---
Magnesium	ppm	● 2	---	---	---
Zinc	ppm	● 49	---	---	---
Phosphorus	ppm	● 2093	---	---	---
Barium	ppm	● <1	---	---	---
Boron	ppm	● 13	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Copper and tin ppm levels are abnormal. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: NORSUR
 Unique No: 5656346
 Signed: Kevin Marson
 Report Date: 10 Oct 2023



GRAPHS

