

LIEBHERR

CONSTRUCTION EQUIPMENT



[[592252]] LIEBHERR R938 056963-1650 - Swing Drive

Sample No: LH0278840

Oil Type: SAE 75W90



MICHAEL WILHELM EXCAVATING LTD.
 4163 ROAD 109
 STRATFORD, ON
 CA N5A 5S2
 Contact: Mike Wilhelm
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 T: (519)273-3413
 F: (519)273-4095



SAMPLE INFORMATION

Sample Number	LH0278840	---	---	---
Sample Date	15 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	32.6	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	3	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	1	---	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	1077	---	---	---
Magnesium	ppm	5	---	---	---
Zinc	ppm	578	---	---	---
Phosphorus	ppm	740	---	---	---
Barium	ppm	2	---	---	---
Boron	ppm	1	---	---	---

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. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 10W 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: WILSEB
 Unique No: 5710202
 Signed: Kevin Marson
 Report Date: 17 Jan 2024



GRAPHS

