

LIEBHERR

CONSTRUCTION EQUIPMENT



054664-1650 - Swing Drive

Sample No: LH0285101

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0285101	LH0239332	---	---
Sample Date	29 Jan 2024	28 Sep 2022	---	---
Machine Hours	2022	305	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	NORMAL	---	---

Delsan - American Iron and Metal
 2187 Montee Masson
 Laval, QC
 CA H7B 0A6
 Contact: MANNY MARQUES
 mmarques@delsan-aim.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	101	174	---	---
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CONTAMINATION

Water	%	1.860	NEG	---	---
Silicon	ppm	6	1	---	---
Sodium	ppm	2	4	---	---
Potassium	ppm	2	<1	---	---



WEAR METALS

PQ		0	---	---	---
Iron	ppm	1289	181	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	17	4	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	12	4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	16	16	---	---
Magnesium	ppm	2	<1	---	---
Zinc	ppm	25	10	---	---
Phosphorus	ppm	1342	2393	---	---
Barium	ppm	<1	4	---	---
Boron	ppm	194	2	---	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high concentration of water present in the oil. Viscosity of sample indicates oil is within SAE 75W90 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: DEL782MON
 Unique No: 5721326
 Signed: Bill Quesnel
 Report Date: 02 Feb 2024



GRAPHS

