

LIEBHERR

CONSTRUCTION EQUIPMENT



[(347307)] LIEBHERR R934 052025-1550 - Swing Drive

Sample No: LH0270380

Oil Type: GEAR OIL SAE 75W90



SAMPLE INFORMATION

Sample Number	LH0270380	LH0239224	LH0227478	LH0214737
Sample Date	27 Jul 2023	15 Nov 2022	09 Mar 2022	10 Sep 2021
Machine Hours	2892	1904	979	397
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

MOFFATT SCRAP IRON & METAL INC.
 9620 GUELPH LINE
 CAMPBELLVILLE, ON
 CA L0P 1B0
 Contact: Paul Brochu
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OIL CONDITION

Visc @ 40°C	cSt	99.6	104	109	197
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CONTAMINATION

Element	Unit	4	4	6	3
Silicon	ppm	4	4	6	3
Sodium	ppm	1	<1	2	1
Potassium	ppm	<1	1	1	1



WEAR METALS

Element	Unit	---	0	---	---
PQ		---	0	---	---
Iron	ppm	599	1043	574	327
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	8	13	8	6
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	5	9	7	4
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Element	Unit	13	14	10	9
Calcium	ppm	13	14	10	9
Magnesium	ppm	4	1	2	<1
Zinc	ppm	15	13	13	12
Phosphorus	ppm	1368	1328	1385	1647
Barium	ppm	0	0	<1	8
Boron	ppm	207	184	235	4

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. All component wear rates are normal. Free water present. The oil is no longer serviceable due to the presence of contaminants.

Depot: MOFMOF
 Unique No: 5618308
 Signed: Kevin Marson
 Report Date: 31 Jul 2023



GRAPHS

