

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138442 - Splitter Box

Sample No: LH0281414

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0281414	LH0274628	LH0256528	LH0251846
Sample Date	07 Dec 2023	20 Aug 2023	21 Jun 2023	23 Mar 2023
Machine Hours	5641	4196	3555	2454
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CMI - COMBINED METAL INDUSTRIES
 505 GARY RAY DRIVE
 NORTH YORK, ON
 CA M9L 1P9
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 F:



OIL CONDITION

Visc @ 40°C	cSt	87.8	93.4	91.6	98.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	3	2	2
Sodium	ppm	3	<1	<1	<1
Potassium	ppm	2	0	<1	<1



WEAR METALS

Iron	ppm	8	12	11	26
Copper	ppm	<1	1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	18	18	15	44
Magnesium	ppm	1	3	1	6
Zinc	ppm	51	20	16	29
Phosphorus	ppm	1194	1359	1346	1446
Barium	ppm	<1	0	0	0
Boron	ppm	305	339	303	262

Diagnosis

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 80 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: COMWES
 Unique No: 5695012
 Signed: Kevin Marson
 Report Date: 11 Dec 2023



GRAPHS

