

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A924C064060-1049 - Front Right Wheel Hub

Sample No: LHMC104646

Oil Type: REPUBLIC CRANE GEAR OIL 90LS PLUS



SAMPLE INFORMATION

Sample Number	LHMC104646	LHMC158131	LH0157724	LHMC144423
Sample Date	09 Jan 2024	01 Sep 2022	26 May 2021	07 Oct 2020
Machine Hours	23880	20945	18120	16690
Oil Hours	0	0	1125	1350
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

MIDWEST METALS CORP
 40 WINDHURST WAY
 SHELBYVILLE, KY
 US 40065
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OIL CONDITION

Visc @ 40°C	cSt	185	192	195	205
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	2	6	10
Sodium	ppm	3	8	16	24
Potassium	ppm	2	<1	<1	3

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. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	60	70	252	605
Copper	ppm	3	2	2	4
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	1	3	6
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	64	57	43	40
Magnesium	ppm	<1	2	2	2
Zinc	ppm	44	37	8	8
Phosphorus	ppm	2359	2143	2354	2318
Barium	ppm	0	0	0	<1
Boron	ppm	0	2	22	3

Depot: MIDSHELH
 Unique No: 10843009
 Signed: Wes Davis
 Report Date: 22 Jan 2024



GRAPHS

