

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 045422-1705 - Swing Drive

Sample No: LHMC124798

Oil Type: LIEBHERR HYPOID 85W-140 EP



Sample Information

Sample Number	LHMC124798	LHMC116254	LH0229831	LH0217221
Sample Date	16 Apr 2024	11 Jul 2023	29 Nov 2022	15 Apr 2022
Machine Hours	9921	9805	8143	7593
Oil Hours	500	1000	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

POTOMAC METALS
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 STERLING, VA
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Oil Condition

Visc @ 40°C	cSt	188	206	370	360



Contamination

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



Wear Metals

Iron	ppm	34	14	31	32
Copper	ppm	22	11	30	17
Lead	ppm	<1	0	0	0
Tin	ppm	2	0	<1	1
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	15	8	2	2
Magnesium	ppm	1	4	<1	0
Zinc	ppm	4	12	24	0
Phosphorus	ppm	2311	2153	1092	1052
Barium	ppm	0	6	0	0
Boron	ppm	4	0	1	2

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.

Depot: POTSTE
 Unique No: 11016604
 Signed: Sean Felton
 Report Date: 08 May 2024



Graphs

