

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 101514-1253 - Rear Right Wheel Hub

Sample No: LH0285587

Oil Type: SUPER S 80W90 LS



SPARTAN RECYCLING
 3071 HOWARD ST
 SPARTANBURG, SC
 US 29303
 Contact: SERVICE MANAGER



Sample Information

Sample Number	LH0285587	LH0272803	LH0235745	LH0217625
Sample Date	28 Jun 2024	10 Jan 2024	25 Sep 2023	22 Mar 2023
Machine Hours	12588	12010	11543	10552
Oil Hours	1000	0	0	2000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION



Oil Condition

Visc @ 40°C	cSt	121	130	104	74.0
		●	●		●

T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 7	● 3	● 3	● 25
Sodium	ppm	● <1	● 2	● <1	● 2
Potassium	ppm	● <1	● 2	● 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.



Wear Metals

Iron	ppm	● 18	● 147	● 106	● 59
Copper	ppm	● 0	● <1	● 2	● <1
Lead	ppm	● 0	● 0	● 0	● 0
Tin	ppm	0	0	0	0
Aluminum	ppm	● 2	● 2	● <1	● 6
Chromium	ppm	● 0	● <1	● <1	● <1
Molybdenum	ppm	0	● <1	● 1	1
Nickel	ppm	● 0	● 0	● 0	● 0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	● <1	● 1	1
Vanadium	ppm	0	0	<1	0



Additives

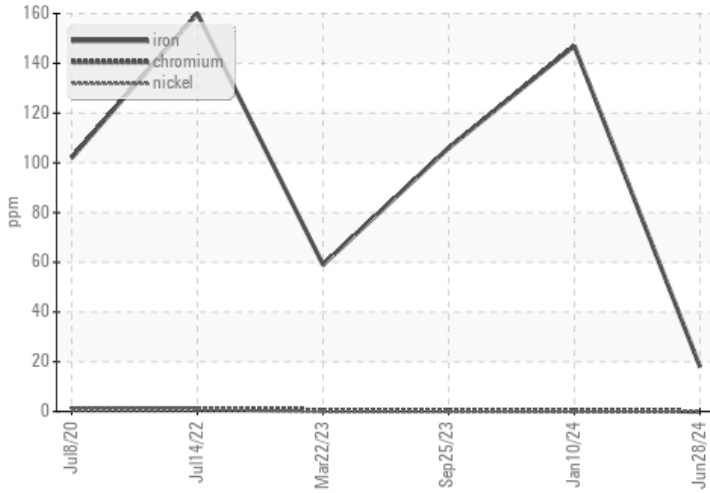
Calcium	ppm	34	● 67	● 71	32
Magnesium	ppm	3	● 7	● 8	7
Zinc	ppm	6	<1	● 33	17
Phosphorus	ppm	279	● 437	● 304	294
Barium	ppm	0	● 3	● 0	0
Boron	ppm	2	0	● 0	4

Depot: SPASPALH
 Unique No: 11111439
 Signed: Wes Davis
 Report Date: 05 Jul 2024

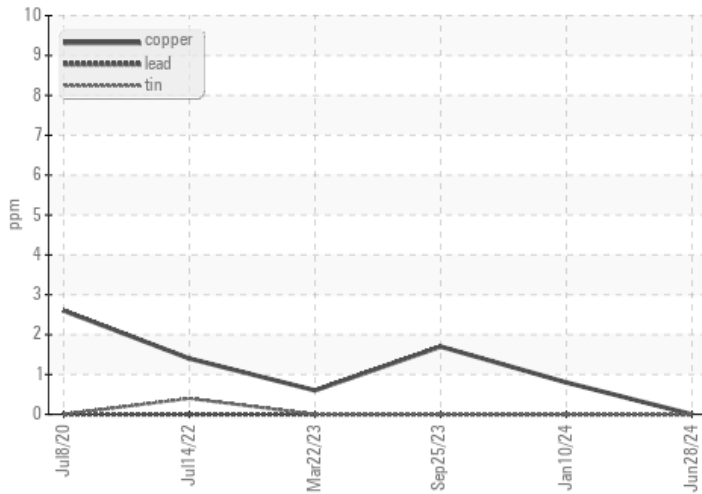


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

