

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 101514-1253 - Front Left Wheel Hub

Sample No: LH0285585

Oil Type: SUPER S 80W90 LS



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



Sample Information

Sample Number	LH0285585	LH0272802	LH0235747	LH0217621
Sample Date	28 Jun 2024	10 Jan 2024	03 Oct 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	ABNORMAL	NORMAL	ABNORMAL



Oil Condition

Visc @ 40°C	cSt	140	131	110	103

T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	4	5	9
Sodium	ppm	<1	0	<1	2
Potassium	ppm	1	1	2	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	150	243	182	567
Copper	ppm	2	2	4	7
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	2	1	1
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	0	<1	1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	1	1	2	5
Vanadium	ppm	0	0	<1	0



Additives

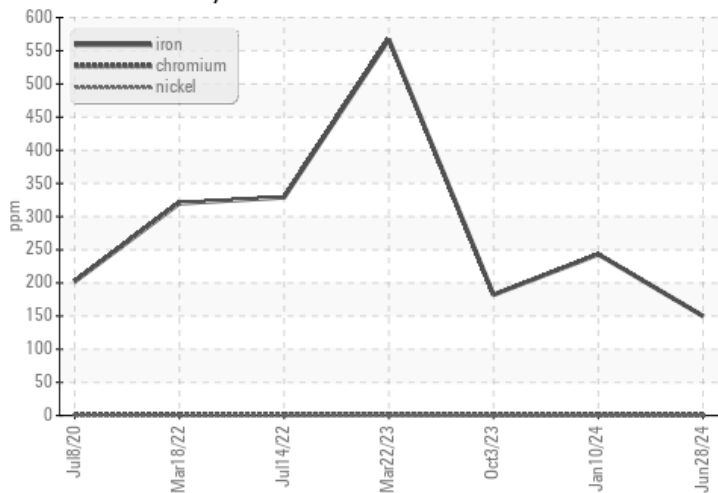
Calcium	ppm	35	61	80	108
Magnesium	ppm	2	5	10	13
Zinc	ppm	6	0	59	69
Phosphorus	ppm	248	326	289	276
Barium	ppm	0	3	0	0
Boron	ppm	0	0	0	1

Depot: SPASPALH
 Unique No: 11111437
 Signed: Wes Davis
 Report Date: 05 Jul 2024

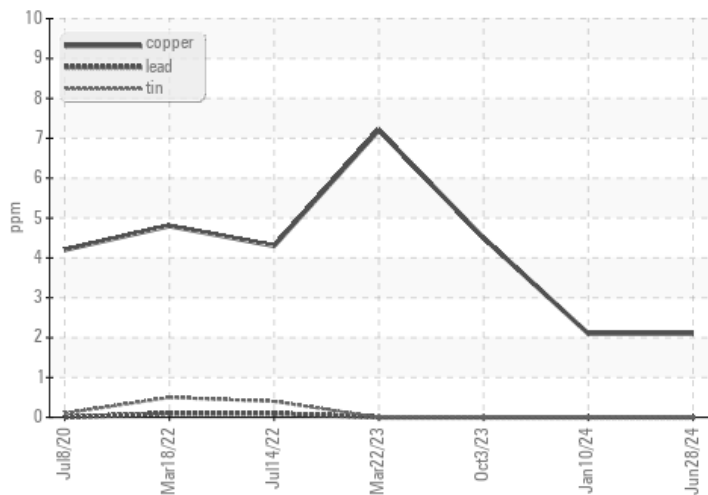


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

