

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 117414-1253 - Front Left Wheel Hub

Sample No: LH0272893

Oil Type: GEAR OIL SAE 80W90



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



SAMPLE INFORMATION

Sample Number	LH0272893	LH0235753	LH0217606	LHMC160644
Sample Date	10 Jan 2024	26 Sep 2023	14 Jul 2022	03 Mar 2022
Machine Hours	8285	7700	0	4332
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	123	101	83.1	105
-------------	-----	------------	-----	------	------------

T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	4	4	4
Sodium	ppm	<1	1	2	4
Potassium	ppm	1	2	<1	6

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	58	56	61	27
Copper	ppm	2	4	2	4
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	<1	0	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	1	1	3
Nickel	ppm	0	0	<1	2
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	1	0
Manganese	ppm	0	1	1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

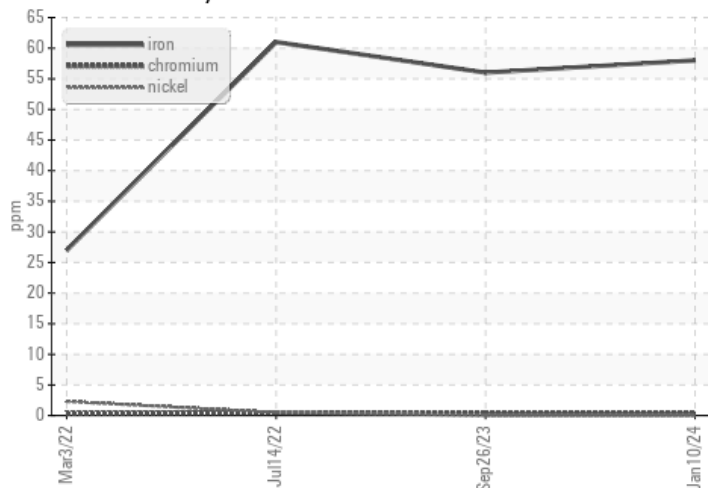
Calcium	ppm	60	67	29	130
Magnesium	ppm	5	7	7	10
Zinc	ppm	0	49	12	55
Phosphorus	ppm	322	263	281	398
Barium	ppm	3	0	0	0
Boron	ppm	0	0	3	5

Depot: SPASPALH
Unique No: 10834550
Signed: Don Baldrige
Report Date: 19 Jan 2024

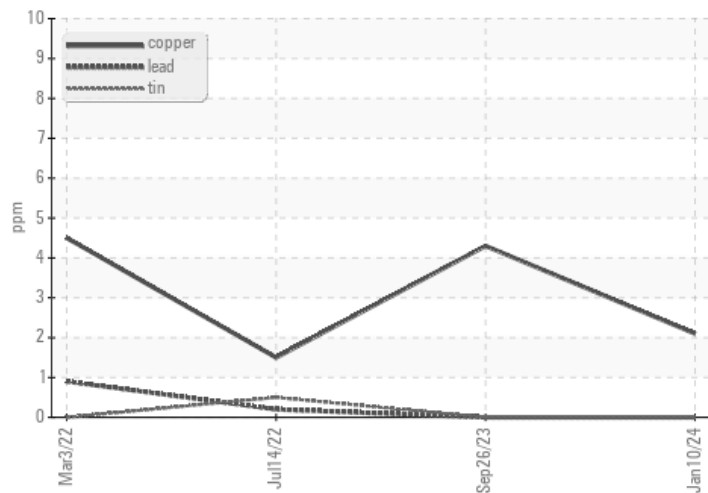


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

