

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 115841-1253 - Swing Drive

Sample No: LH0273456

Oil Type: GEAR OIL SAE 80W90



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



Sample Information

Sample Number	LH0273456	LH0235737	LH0207553	LHMC133961
Sample Date	20 Jun 2024	28 Sep 2023	22 Mar 2023	02 Sep 2022
Machine Hours	12685	10707	9140	7815
Oil Hours	500	0	2000	500
Oil Changed	Not Chngd	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION



Oil Condition

Visc @ 40°C	cSt	132	110	93.2	98.6
-------------	-----	-----	-----	------	------

T:
F:



Contamination

Water	%	0.154	NEG	NEG	NEG
Silicon	ppm	2	5	11	5
Sodium	ppm	<1	0	<1	<1
Potassium	ppm	2	2	2	1

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	339	80	97	373
Copper	ppm	35	33	32	70
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	<1	2
Aluminum	ppm	3	<1	0	<1
Chromium	ppm	4	<1	<1	3
Molybdenum	ppm	<1	1	1	2
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	2	3
Vanadium	ppm	0	<1	0	0



Additives

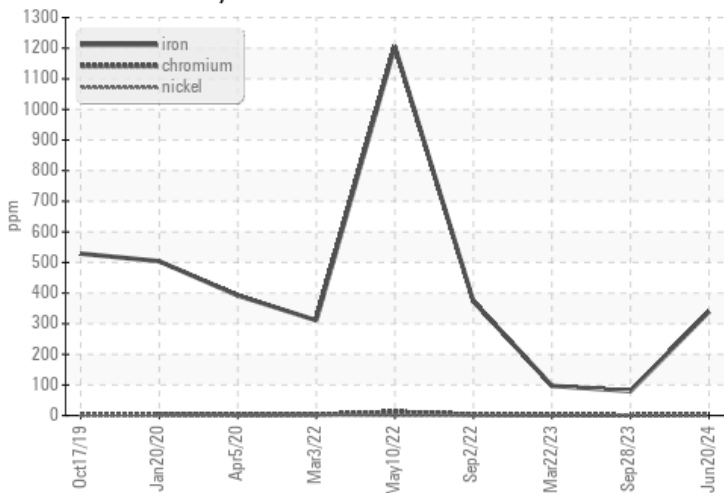
Calcium	ppm	13	160	101	67
Magnesium	ppm	2	16	10	5
Zinc	ppm	22	66	40	35
Phosphorus	ppm	280	428	412	570
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	2	7

Depot: SPASPALH
 Unique No: 11100850
 Signed: Don Baldrige
 Report Date: 29 Jun 2024

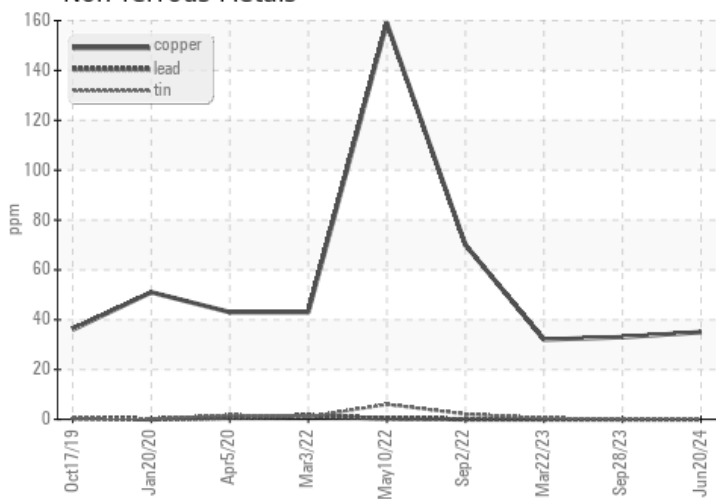


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

