

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 115841-1253 - Front Differential

Sample No: LH0285575

Oil Type: SUPER S 80W90 LS



Sample Information

Sample Number	LH0285575	LH0235734	DJJ0011137	LH0207552
Sample Date	20 Jun 2024	28 Sep 2023	22 May 2023	22 Mar 2023
Machine Hours	12685	10707	1000	9140
Oil Hours	500	0	1000	2000
Oil Changed	Not Chngd	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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



Oil Condition

Visc @ 40°C	cSt	126	88.8	120	87.6
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T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	2	4	3
Sodium	ppm	<1	<1	0	<1
Potassium	ppm	2	1	2	0

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	15	50	10	29
Copper	ppm	1	6	<1	2
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	3	<1	0	0
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	<1	<1	1	<1
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	<1	2
Vanadium	ppm	0	<1	0	0



Additives

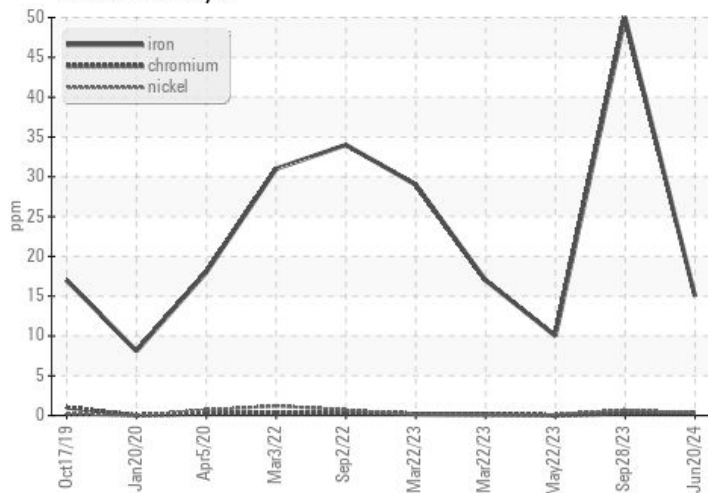
Calcium	ppm	19	84	150	68
Magnesium	ppm	3	5	16	6
Zinc	ppm	12	30	61	25
Phosphorus	ppm	308	392	325	303
Barium	ppm	0	0	2	0
Boron	ppm	1	0	4	1

Depot: SPASPALH
 Unique No: 11100849
 Signed: Don Baldrige
 Report Date: 29 Jun 2024

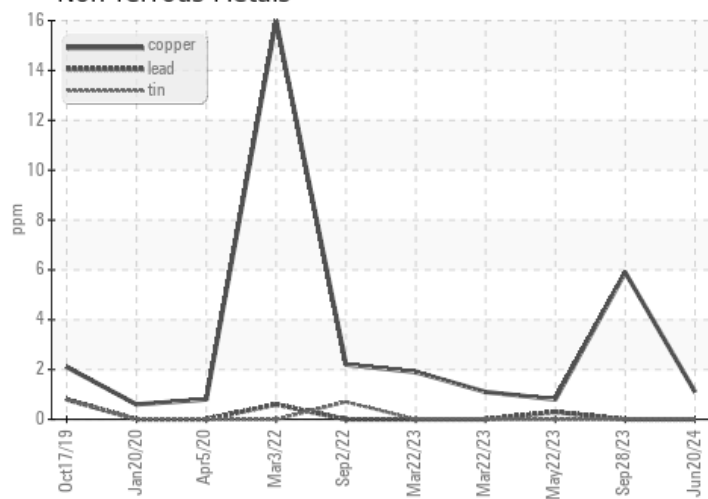


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

