

LIEBHERR

CONSTRUCTION EQUIPMENT



[[YORKTOWN MATERIALS]] LIEBHERR R926LC 045780-1488 - Diesel

Sample No: LH0258241

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0258241	LH0220158	LHMC164009	LH0173590
Sample Date	27 Oct 2023	26 Sep 2022	01 Mar 2022	16 Apr 2021
Machine Hours	3999	1000	2817	2000
Oil Hours	2000	0	817	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE
NEWPORT NEWS, VA
US 23607

Contact: LUKE APPLEBY
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T:
F: (757)298-8700



OIL CONDITION

Visc @ 100°C	cSt	13.2	11.6	12.8	11.9
Base Number (BN)	mg KOH/g	9.7	11.9	13.6	---
Oxidation (PA)	%	56	44	51	64



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.3
Nitration (PA)	%	54	105	108	108
Sulfation (PA)	%	51	45	48	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.9
Silicon	ppm	7	10	10	6
Sodium	ppm	3	3	<1	4
Potassium	ppm	2	0	3	2



WEAR METALS

Iron	ppm	3	8	10	12
Copper	ppm	1	3	6	14
Lead	ppm	<1	1	<1	2
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	1	2	0
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	57	2	9	14
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1155	4524	3958	3527
Magnesium	ppm	924	42	153	213
Zinc	ppm	1232	1260	1268	1117
Phosphorus	ppm	1002	1068	1061	980
Barium	ppm	0	0	0	4
Boron	ppm	6	256	245	285

Diagnosis

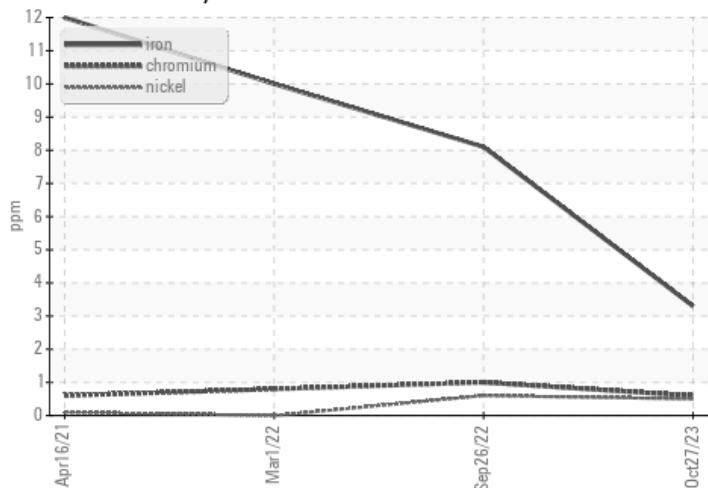
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS
Unique No: 10847598
Signed: Don Baldrige
Report Date: 29 Jan 2024

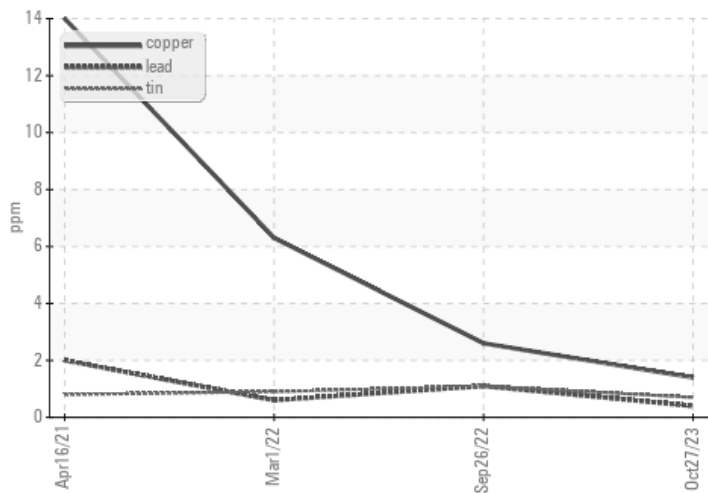


GRAPHS

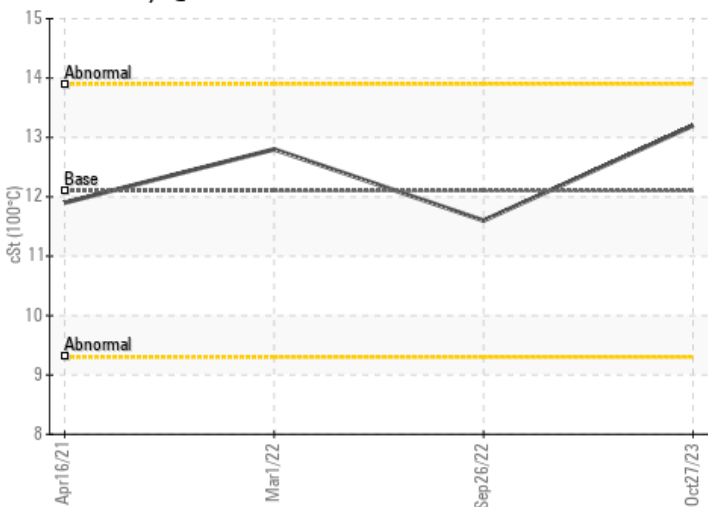
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

