

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LR636 022550-1725 - Diesel Engine

Sample No: LH0273233

Oil Type: LIEBHERR MOTOROIL 5W30



SAMPLE INFORMATION

Sample Number	LH0273233	LHMC100327	LHMC79933	---
Sample Date	02 Jan 2024	21 Dec 2022	14 Sep 2022	---
Machine Hours	1236	501	282	---
Oil Hours	731	501	282	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.1	11.8	12.3	---
Base Number (BN)	mg KOH/g	8.0	15.7	5.3	---
Oxidation (PA)	%	86	66	219	---

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 suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	76	97	101	---
Sulfation (PA)	%	61	53	117	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	1.1	<1.0	---
Silicon	ppm	9	8	11	---
Sodium	ppm	3	2	2	---
Potassium	ppm	2	<1	2	---



WEAR METALS

Iron	ppm	7	6	10	---
Copper	ppm	10	38	209	---
Lead	ppm	<1	<1	2	---
Tin	ppm	<1	0	1	---
Aluminum	ppm	2	2	4	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	<1	6	47	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

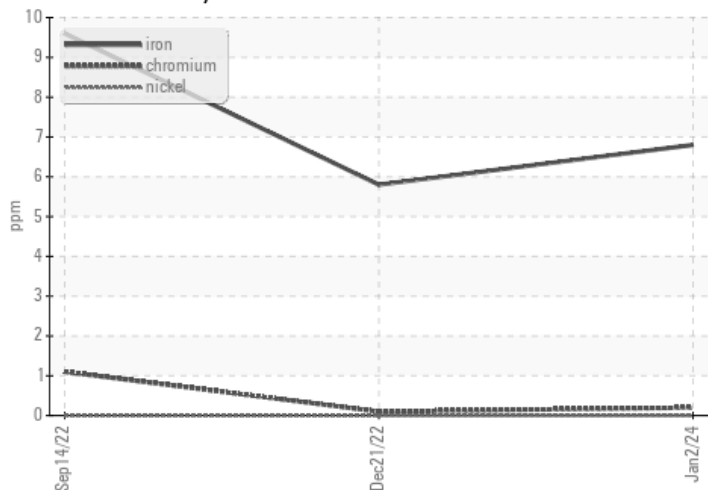
Calcium	ppm	1709	4016	1352	---
Magnesium	ppm	845	136	867	---
Zinc	ppm	1063	1223	875	---
Phosphorus	ppm	939	982	721	---
Barium	ppm	0	0	17	---
Boron	ppm	138	240	101	---

Depot: LEC0070
Unique No: 10820510
Signed: Sean Felton
Report Date: 10 Jan 2024

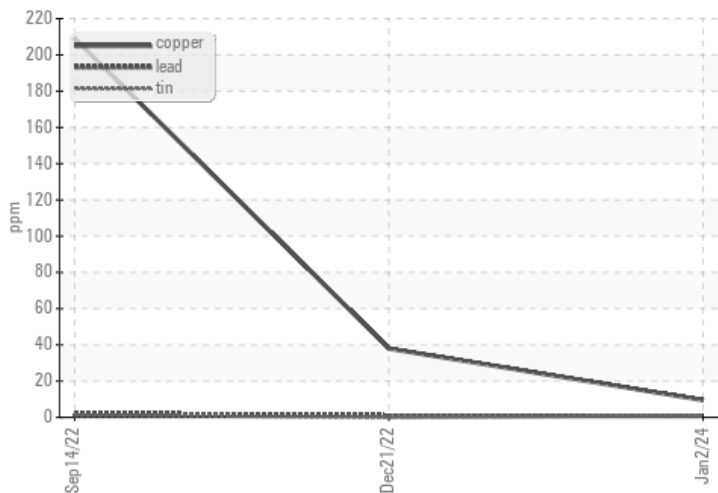


GRAPHS

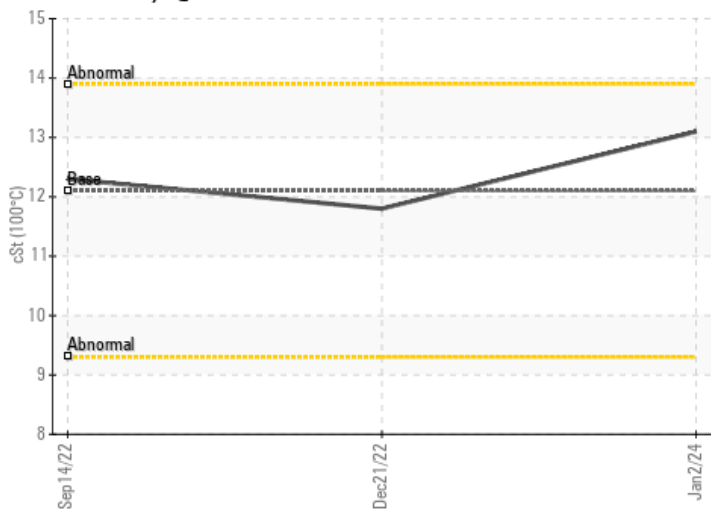
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

