

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A904 030904-710 - Diesel Engine

Sample No: LH0267729

Oil Type: SAE 15W40



RECO EQUIPMENT INC
 8075 PRODUCTION DRIVE
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Sample Information

Sample Number	LH0267729	LHMC003911	LHMC007778	---
Sample Date	17 Mar 2024	15 Aug 2007	31 Oct 2006	---
Machine Hours	8958	642	172	---
Oil Hours	0	142	172	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---



Oil Condition

Visc @ 100°C	cSt	14.3	13.3	13.4	---
Base Number (BN)	mg KOH/g	6.7	---	---	---
Oxidation (PA)	%	72	38	40	---



Contamination

Water	%	NEG	NEG	NEG	---
Soot %	%	1.7	0.3	0.1	---
Nitration (PA)	%	97	55	25	---
Sulfation (PA)	%	64	44	0	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	8	12	---
Sodium	ppm	4	3	14	---
Potassium	ppm	2	0	2	---



Wear Metals

Iron	ppm	22	13	29	---
Copper	ppm	2	3	8	---
Lead	ppm	2	0	2	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	4	2	2	---
Chromium	ppm	1	1	2	---
Molybdenum	ppm	90	0	0	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



Additives

Calcium	ppm	2431	2726	3894	---
Magnesium	ppm	120	291	38	---
Zinc	ppm	1374	1364	1045	---
Phosphorus	ppm	1264	1230	924	---
Barium	ppm	0	<1	3	---
Boron	ppm	66	23	221	---

Diagnosis

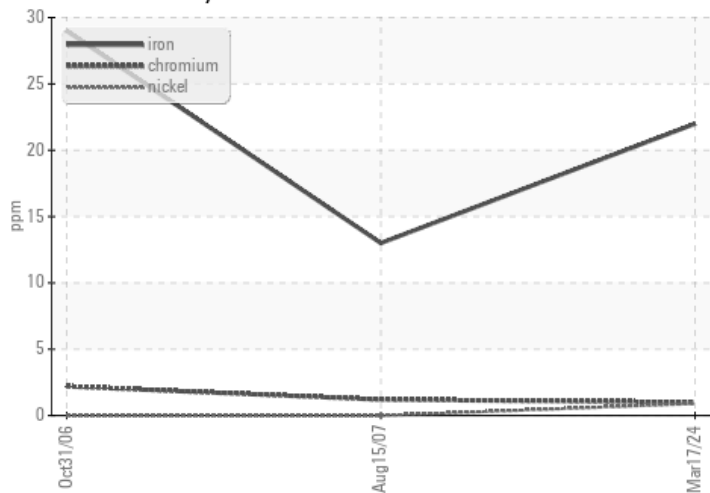
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LEC0082
Unique No: 10996513
Signed: Wes Davis
Report Date: 26 Apr 2024

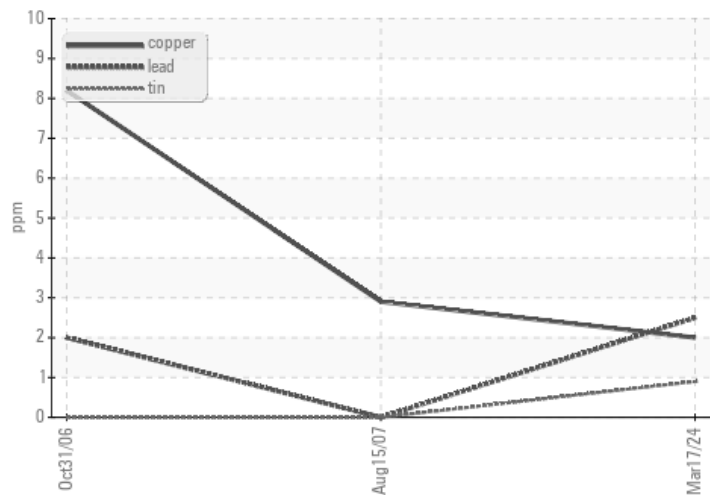


Graphs

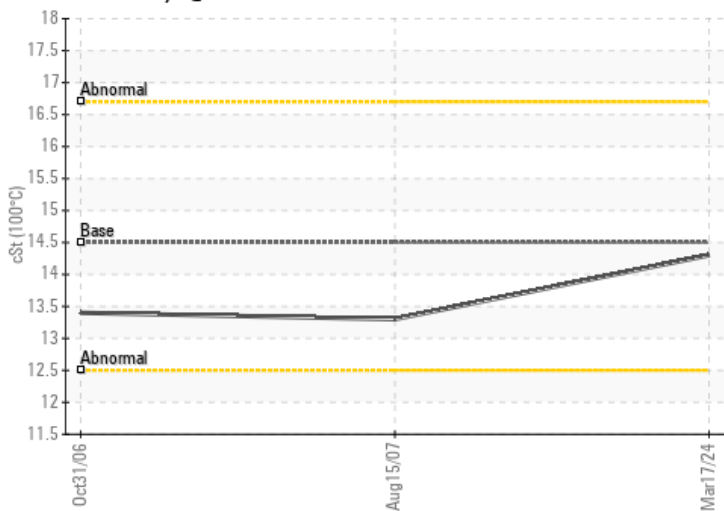
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

