

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R924C 022706-1069 - Diesel Engine

Sample No: LH0244307

Oil Type: CENEX MAXTRON 5W40



SAMPLE INFORMATION

Sample Number	LH0244307	LH0185607	---	---
Sample Date	24 Jan 2024	22 Jun 2022	---	---
Machine Hours	12143	11507	---	---
Oil Hours	231	250	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

RUSS'S AUTO & SCRAP

PO BOX 288

GRAFTON, ND

US 58237

Contact: RUSS

russauto@hotmail.com

T: (701)352-3333

F:



OIL CONDITION

Visc @ 100°C	cSt	14.4	14.6	---	---
Base Number (BN)	mg KOH/g	9.2	9.5	---	---
Oxidation (PA)	%	67	70	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	60	69	---	---
Sulfation (PA)	%	52	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	6	---	---
Sodium	ppm	0	4	---	---
Potassium	ppm	3	1	---	---



WEAR METALS

Iron	ppm	3	9	---	---
Copper	ppm	<1	1	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	56	55	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	869	919	---	---
Magnesium	ppm	998	995	---	---
Zinc	ppm	1180	1208	---	---
Phosphorus	ppm	965	1004	---	---
Barium	ppm	0	0	---	---
Boron	ppm	68	63	---	---

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.

Depot: RUSGRA

Unique No: 10855884

Signed: Wes Davis

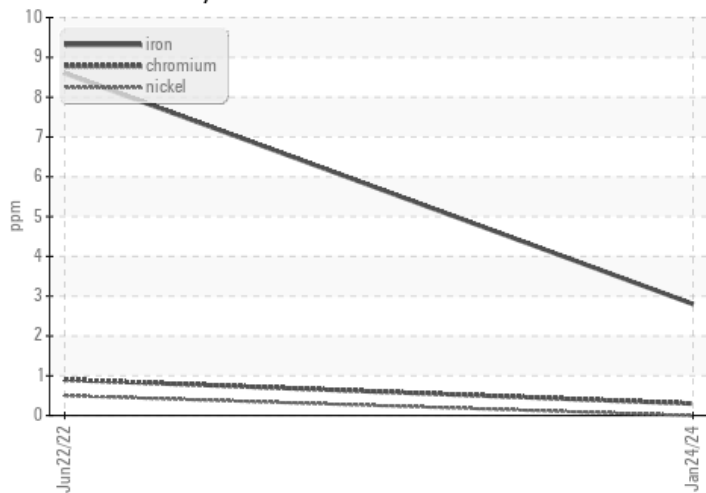
Report Date: 31 Jan 2024

Contact/Location: RUSS ? - RUSGRA

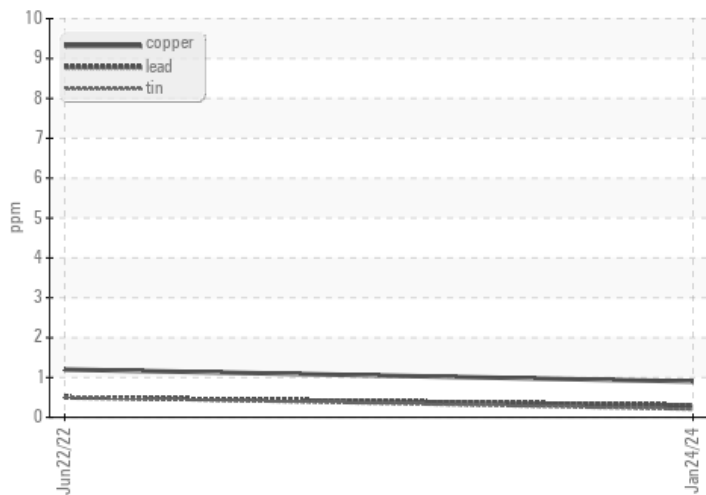


GRAPHS

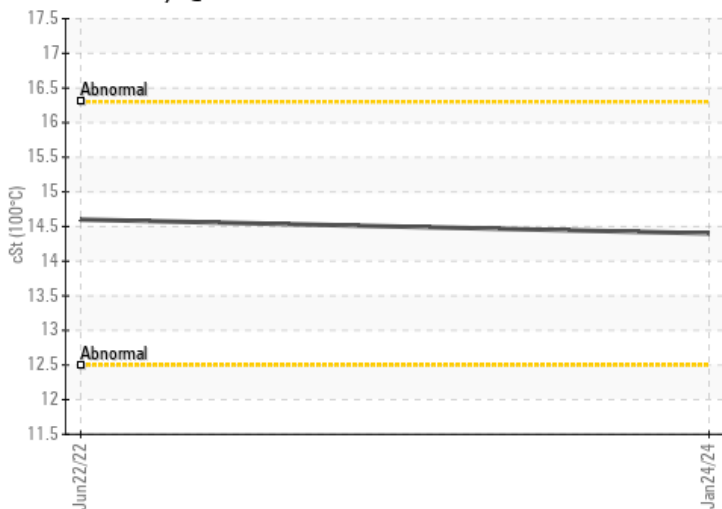
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

