

LIEBHERR

CONSTRUCTION EQUIPMENT



[[KRAMER]] PETTIBONE T944X EX20093-17 - Front Left Final

Sample No: LH0253889

Oil Type: GEAR OIL LS 80W90



SAMPLE INFORMATION

Sample Number	LH0253889	LH0185245	---	---
Sample Date	03 Oct 2023	14 Oct 2021	---	---
Machine Hours	2473	1056	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

AMERICAN STATE EQUIPMENT CO.
 2400 NORTH 14TH AVENUE
 WAUSAU, WI
 US 54401
 Contact: CHRIS BARTNIK
 cbartnik@amstate.com
 T: (715)675-6900
 F: (715)675-9748



OIL CONDITION

Visc @ 40°C	cSt	131	145	---	---
-------------	-----	-----	-----	-----	-----



CONTAMINATION

Silicon	ppm	4	5	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	<1	<1	---	---

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	58	8	---	---
Copper	ppm	13	5	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	<1	0	---	---
Chromium	ppm	3	<1	---	---
Molybdenum	ppm	48	1	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

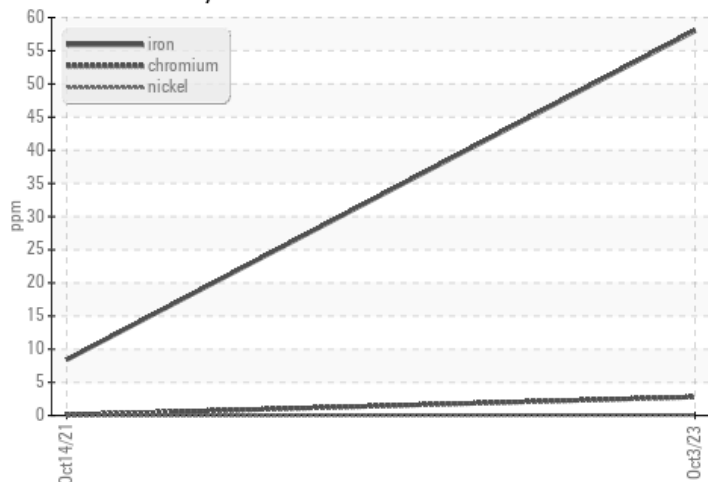
Calcium	ppm	106	30	---	---
Magnesium	ppm	54	5	---	---
Zinc	ppm	66	6	---	---
Phosphorus	ppm	1037	971	---	---
Barium	ppm	0	0	---	---
Boron	ppm	28	139	---	---

Depot: LEC0008
 Unique No: 10698053
 Signed: Sean Felton
 Report Date: 18 Oct 2023

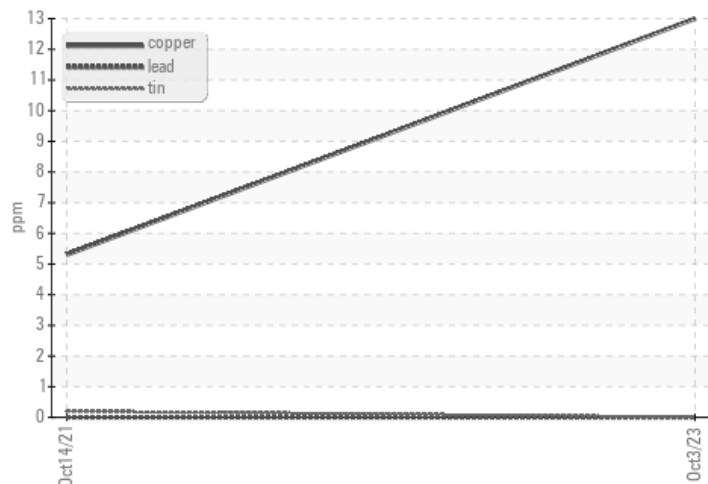


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

