

LIEBHERR

CONSTRUCTION EQUIPMENT



PETTIBONE T944X EX20093-17 - Front Differential

Sample No: LHMC155854

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LHMC155854	LH0185243	---	---
Sample Date	02 Feb 2024	14 Oct 2021	---	---
Machine Hours	2653	1056	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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 WAUSAU, WI
 US 54401
 Contact: JASON HOLZNAGEL
 jholznagel@amstate.com
 T:
 F: (715)675-9748



OIL CONDITION

Visc @ 40°C	cSt	● 115	● 148	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 8	● 5	---	---
Sodium	ppm	● 0	● 2	---	---
Potassium	ppm	● 0	● 0	---	---



WEAR METALS

Iron	ppm	● 55	● 20	---	---
Copper	ppm	● 0	● <1	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 0	1	---	---
Nickel	ppm	● 0	<1	---	---
Titanium	ppm	1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 4	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 130	13	---	---
Magnesium	ppm	● 12	4	---	---
Zinc	ppm	● 64	12	---	---
Phosphorus	ppm	● 728	1045	---	---
Barium	ppm	● 0	<1	---	---
Boron	ppm	0	116	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

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.

Depot: LEC0008
 Unique No: 10899414
 Signed: Wes Davis
 Report Date: 28 Feb 2024



GRAPHS

