



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
OHIO RIVER PRIDE

Component
Port Main Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (20 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0047972	MW0048142	---
Sample Date		Client Info		15 Mar 2024	02 Feb 2024	---
Machine Age	hrs	Client Info		1894	1227	---
Oil Age	hrs	Client Info		667	1227	---
Filter Age	hrs	Client Info		667	1227	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	12	25	---
Chromium	ppm	ASTM D5185m	>8	2	2	---
Nickel	ppm	ASTM D5185m	>2	0	<1	---
Titanium	ppm	ASTM D5185m	>3	<1	<1	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>15	4	4	---
Lead	ppm	ASTM D5185m	>18	<1	2	---
Copper	ppm	ASTM D5185m	>80	2	11	---
Tin	ppm	ASTM D5185m	>14	<1	2	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

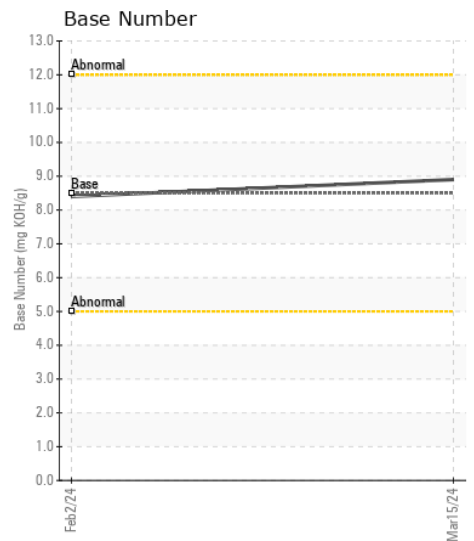
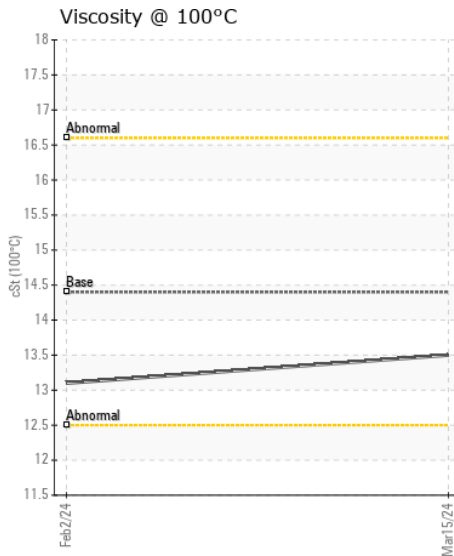
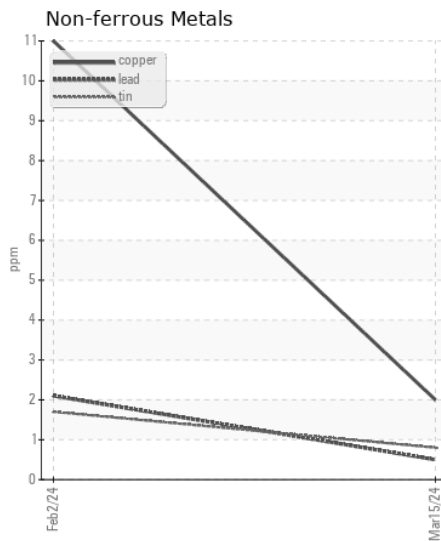
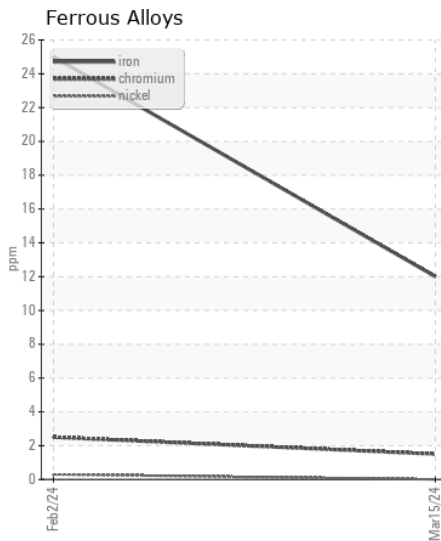
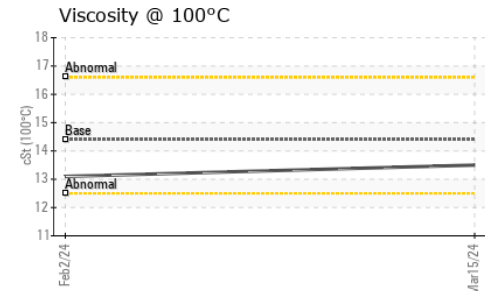
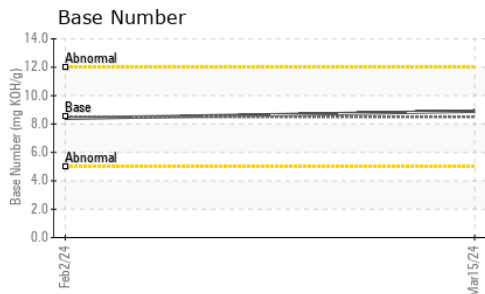
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	9	▲ 25	---
Potassium	ppm	ASTM D5185m	>20	3	10	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.1	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844		0.5	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8	23.6	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>158	<1	3	---
Boron	ppm	ASTM D5185m	250	329	327	---
Barium	ppm	ASTM D5185m	10	2	0	---
Molybdenum	ppm	ASTM D5185m	100	132	144	---
Manganese	ppm	ASTM D5185m		<1	4	---
Magnesium	ppm	ASTM D5185m	450	654	699	---
Calcium	ppm	ASTM D5185m	3000	1580	1510	---
Phosphorus	ppm	ASTM D5185m	1150	732	749	---
Zinc	ppm	ASTM D5185m	1350	874	882	---
Sulfur	ppm	ASTM D5185m	4250	2785	2668	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	16.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.9	8.4	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.5	13.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0047972
Lab Number : 06124726
Unique Number : 10938877
Test Package : MAR 2

Received : 21 Mar 2024
Tested : 22 Mar 2024
Diagnosed : 22 Mar 2024 - Wes Davis

ARTCO - ADM AG SERVICES & OIL SEEDS
 2505 BLUFF ROAD
 MT VERNON, IN
 US 47620
 Contact: JOE FLOYD
 joseph.floyd@adm.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: