



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**OSHKOSH 4353**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0917108</b>	WC0893813	---
Sample Date		Client Info		<b>07 May 2024</b>	01 Feb 2024	---
Machine Age	mls	Client Info		<b>83061</b>	80623	---
Oil Age	mls	Client Info		<b>0</b>	0	---
Filter Age	mls	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>8</b>	7	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

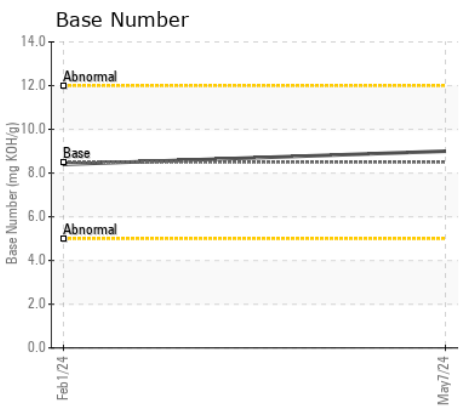
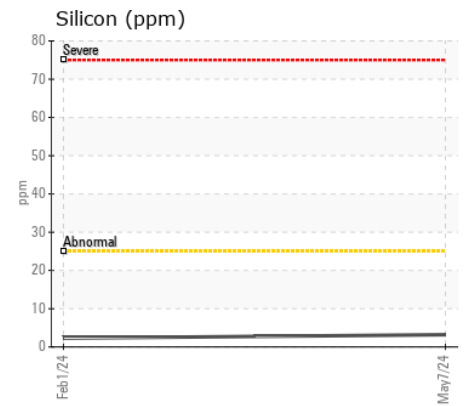
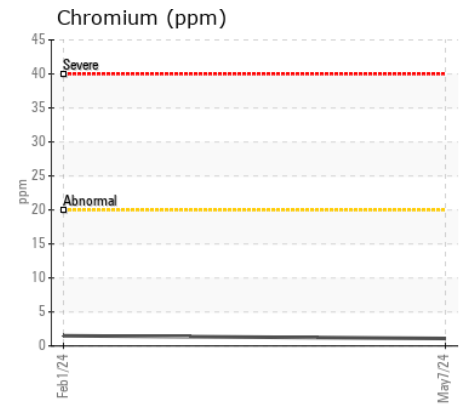
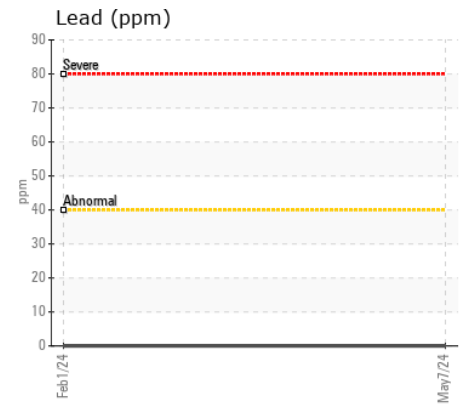
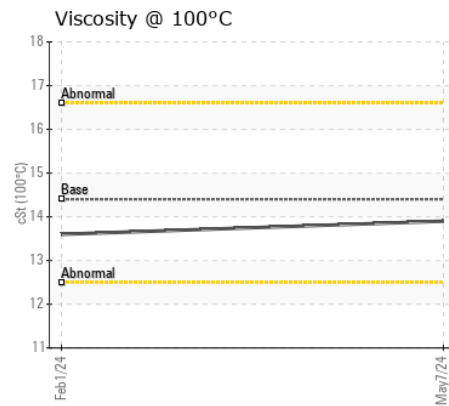
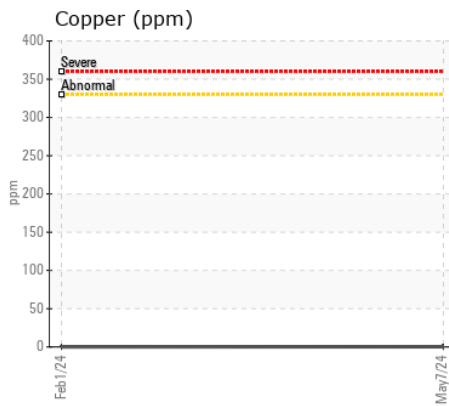
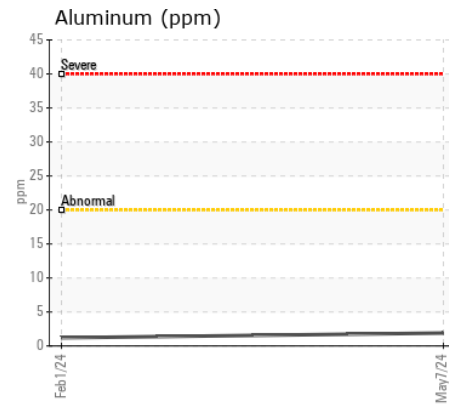
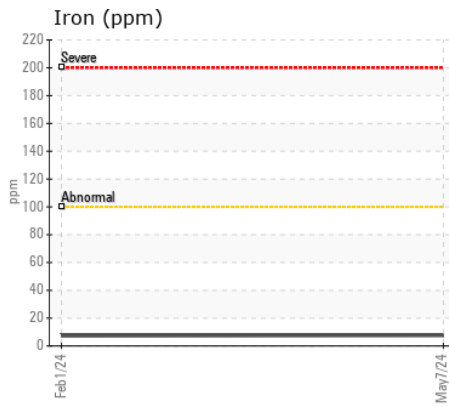
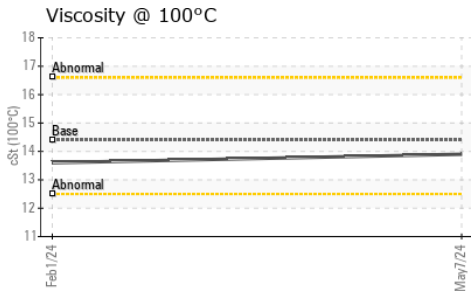
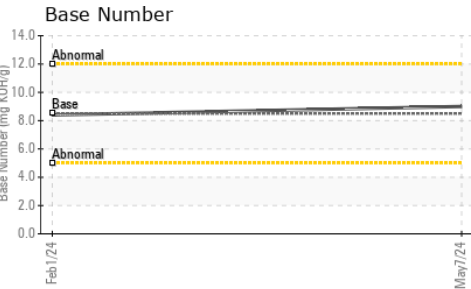
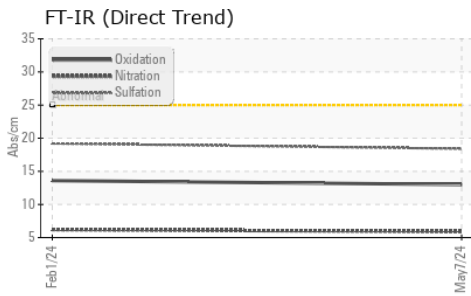
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.9</b>	6.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.4</b>	19.2	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	<b>9</b>	2	---
Boron	ppm	ASTM D5185m	250	<b>21</b>	23	---
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	100	<b>65</b>	52	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	450	<b>951</b>	853	---
Calcium	ppm	ASTM D5185m	3000	<b>1259</b>	1135	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1155</b>	1015	---
Zinc	ppm	ASTM D5185m	1350	<b>1348</b>	1199	---
Sulfur	ppm	ASTM D5185m	4250	<b>3272</b>	2920	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.0</b>	13.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>9.0</b>	8.4	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.9</b>	13.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0917108

Lab Number : 06214223

Unique Number : 11087087

Test Package : MOB 1 ( Additional Tests: TBN )

Received : 19 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Wes Davis

CONCRETE SERVICE CO - FAY BLOCK

161 BUILDERS BLVD

FAYETTEVILLE, NC

US 28301

Contact: BRYAN VANNIMAN

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F:

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)