



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
OSHKOSH 4431
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		WC0917201	WC0906273	---
Sample Date		Client Info		03 Jun 2024	19 Feb 2024	---
Machine Age	mls	Client Info		18504	12877	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	8	5	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	<1	0	---
Aluminum	ppm	ASTM D5185m	>20	2	<1	---
Lead	ppm	ASTM D5185m	>40	0	0	---
Copper	ppm	ASTM D5185m	>330	<1	<1	---
Tin	ppm	ASTM D5185m	>15	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

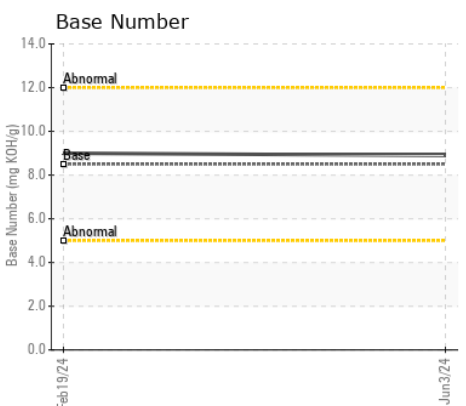
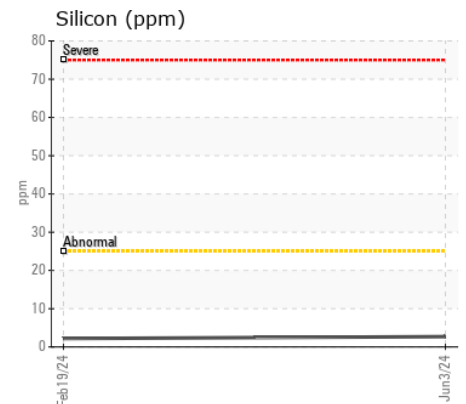
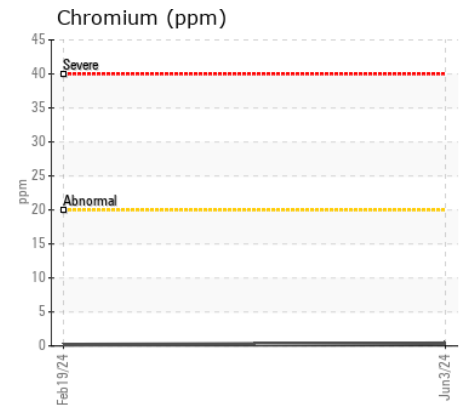
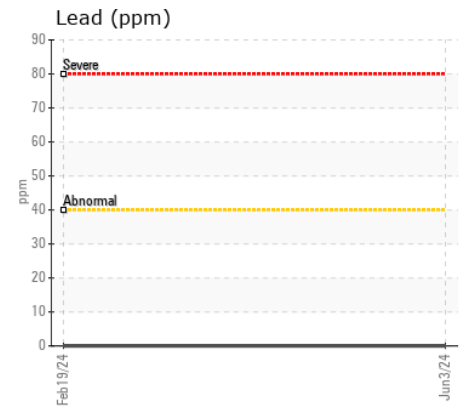
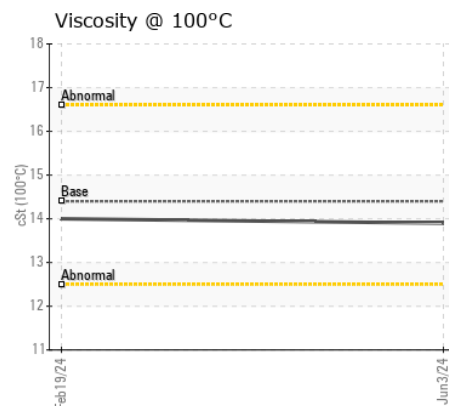
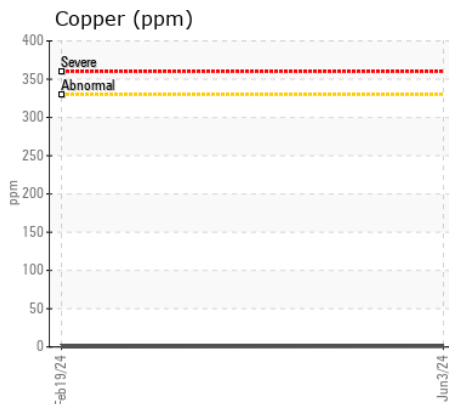
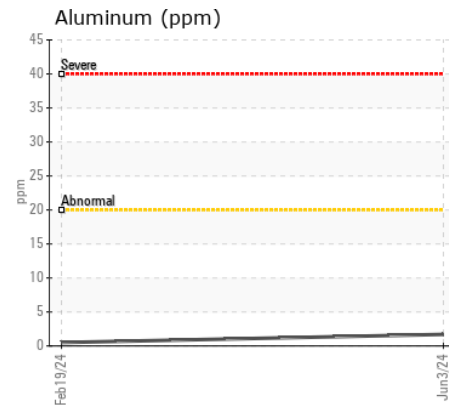
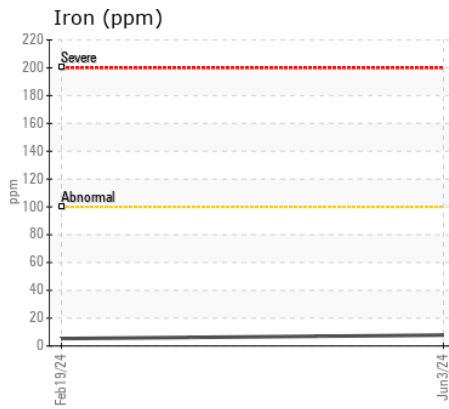
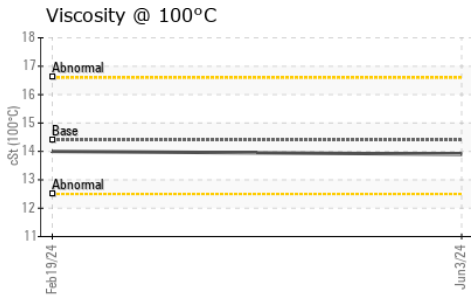
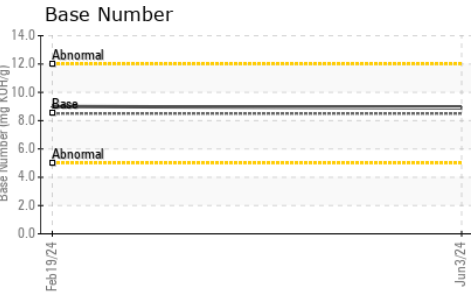
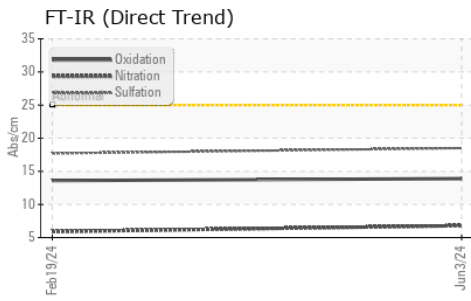
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	2	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	6.8	5.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	17.7	---
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	>0.2	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	0	3	---
Boron	ppm	ASTM D5185m	250	2	2	---
Barium	ppm	ASTM D5185m	10	0	0	---
Molybdenum	ppm	ASTM D5185m	100	58	54	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m	450	931	885	---
Calcium	ppm	ASTM D5185m	3000	1084	1040	---
Phosphorus	ppm	ASTM D5185m	1150	1063	937	---
Zinc	ppm	ASTM D5185m	1350	1233	1099	---
Sulfur	ppm	ASTM D5185m	4250	2966	3325	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	13.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.9	9.0	---
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	14.0	---



Certificate L2367

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

Sample No. : WC0917201

Lab Number : 06233000

Unique Number : 11116493

Test Package : MOB 1 (Additional Tests: TBN)

Received : 11 Jul 2024

Tested : 11 Jul 2024

Diagnosed : 11 Jul 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)