



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1798
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0906145	WC0729789	---
Sample Date		Client Info		26 Feb 2024	02 Nov 2022	---
Machine Age	mls	Client Info		34209	4123	---
Oil Age	mls	Client Info		0	0	---
Filter Age	mls	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	ATTENTION	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	8	55	---
Chromium	ppm	ASTM D5185m	>20	<1	2	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	6	19	---
Lead	ppm	ASTM D5185m	>40	0	0	---
Copper	ppm	ASTM D5185m	>330	<1	75	---
Tin	ppm	ASTM D5185m	>15	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

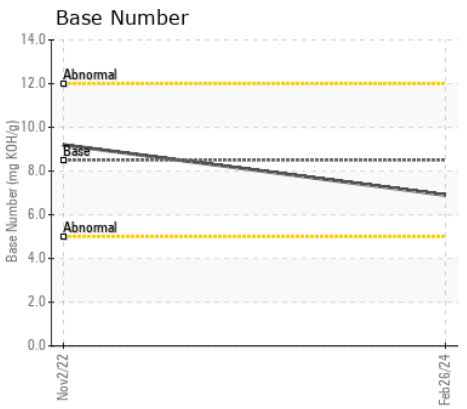
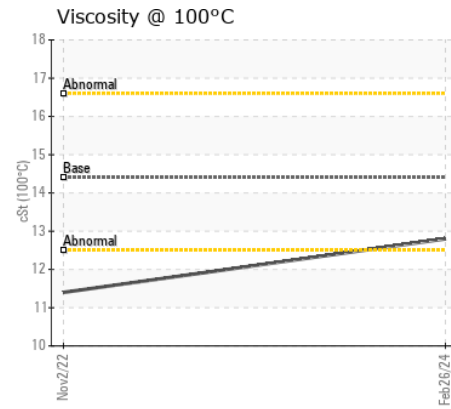
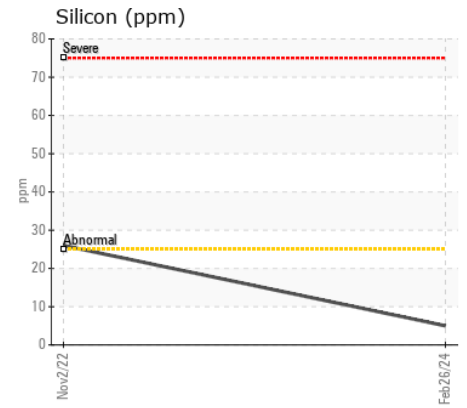
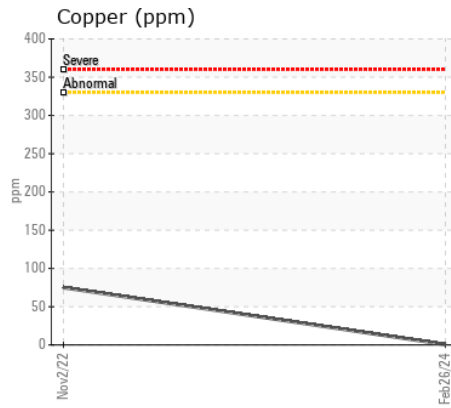
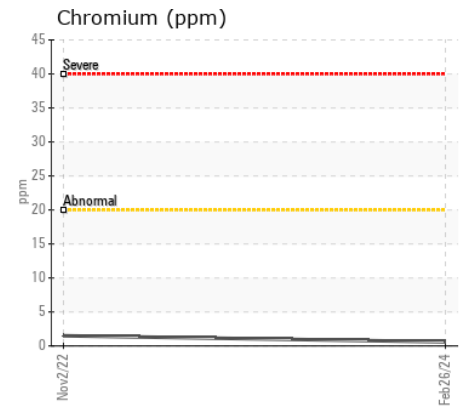
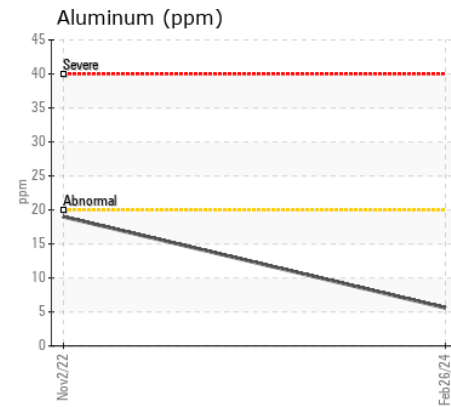
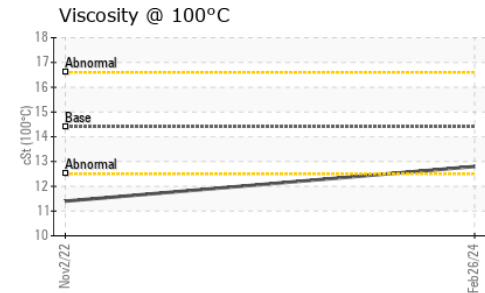
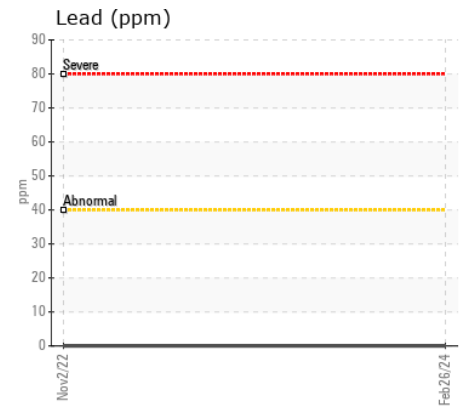
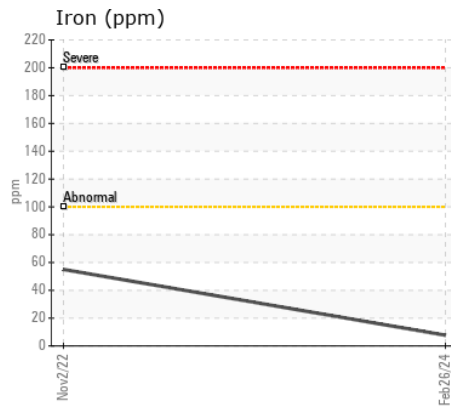
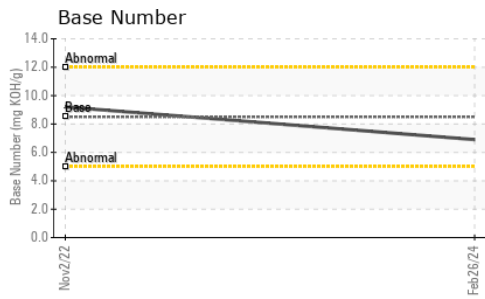
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	26	---
Potassium	ppm	ASTM D5185m	>20	5	67	---
Fuel		WC Method	>5	<1.0	1.8	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.3	10.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	22.7	---
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	2	8	---
Boron	ppm	ASTM D5185m	250	52	36	---
Barium	ppm	ASTM D5185m	10	0	6	---
Molybdenum	ppm	ASTM D5185m	100	87	51	---
Manganese	ppm	ASTM D5185m		0	5	---
Magnesium	ppm	ASTM D5185m	450	111	747	---
Calcium	ppm	ASTM D5185m	3000	2038	1267	---
Phosphorus	ppm	ASTM D5185m	1150	1057	745	---
Zinc	ppm	ASTM D5185m	1350	1253	852	---
Sulfur	ppm	ASTM D5185m	4250	4079	2731	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	20.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.9	9.2	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	11.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0906145 **Received** : 29 Feb 2024
Lab Number : 06104832 **Tested** : 01 Mar 2024
Unique Number : 10903062 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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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)