



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**620**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## 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		<b>WC0745784</b>	WC0745775	WC0609079
Sample Date		Client Info		<b>17 Apr 2024</b>	30 Sep 2023	24 Jun 2023
Machine Age	hrs	Client Info		<b>0</b>	3745	3167
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>80</b>	66	75
Chromium	ppm	ASTM D5185m	>20	<b>6</b>	5	4
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>19</b>	13	11
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	1	<1
Copper	ppm	ASTM D5185m	>330	<b>13</b>	6	6
Tin	ppm	ASTM D5185m	>15	<b>3</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

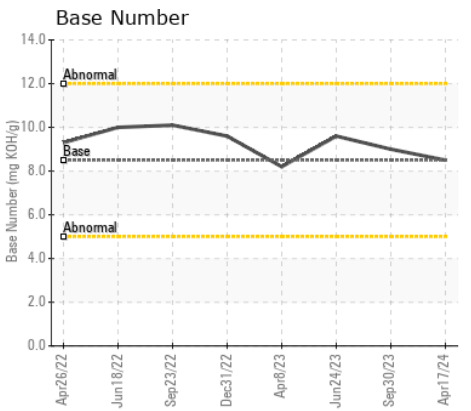
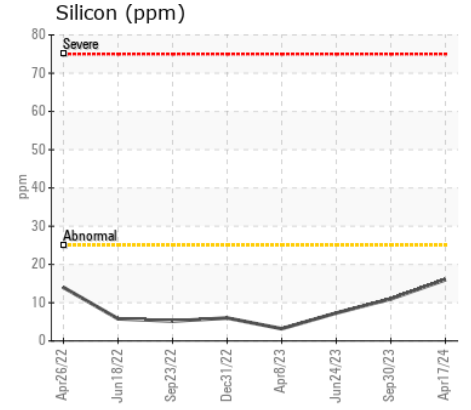
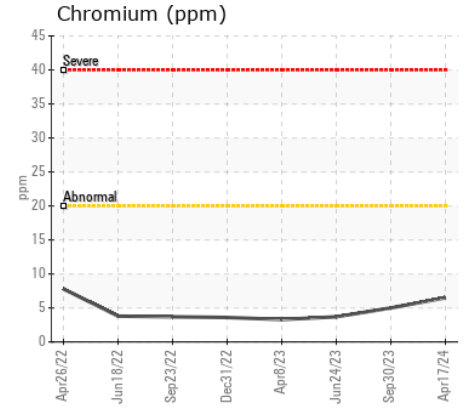
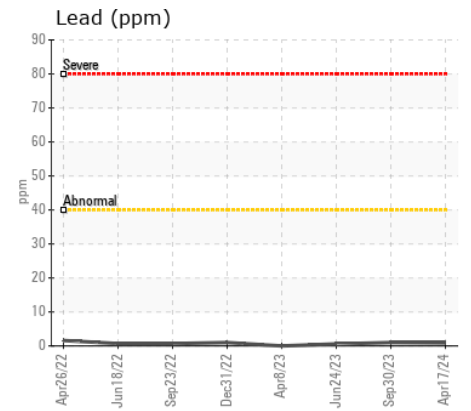
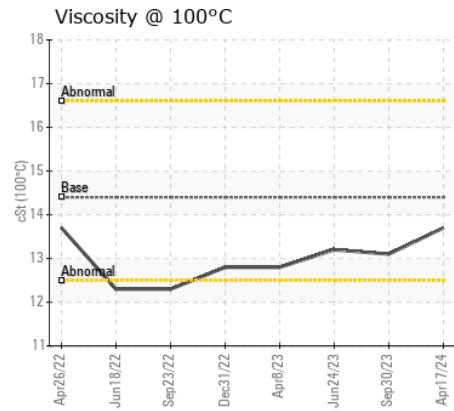
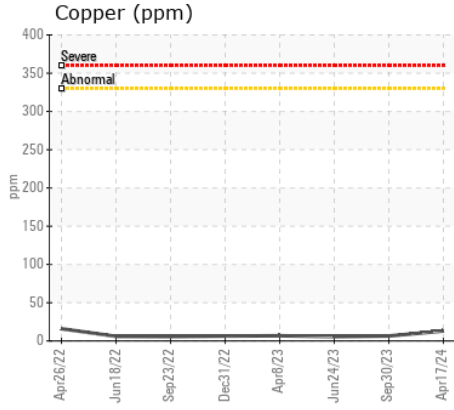
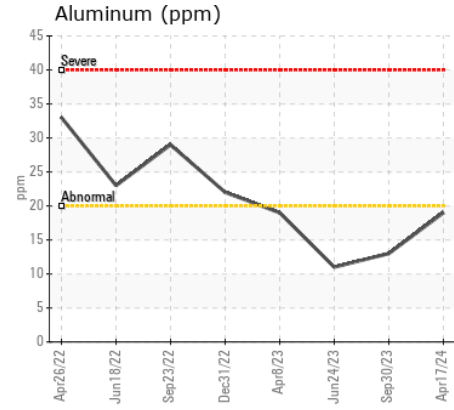
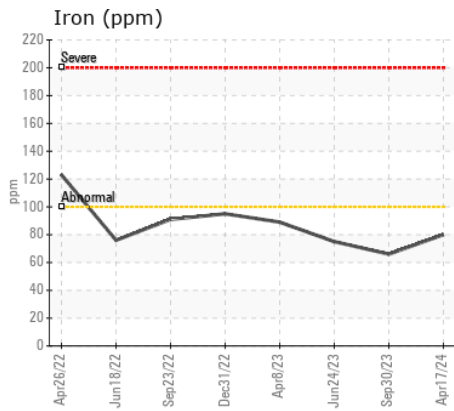
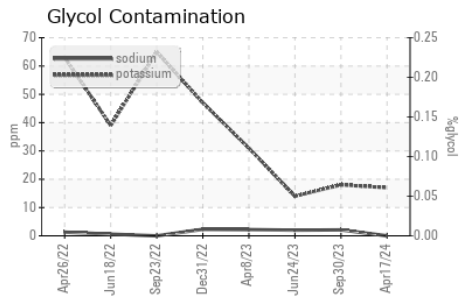
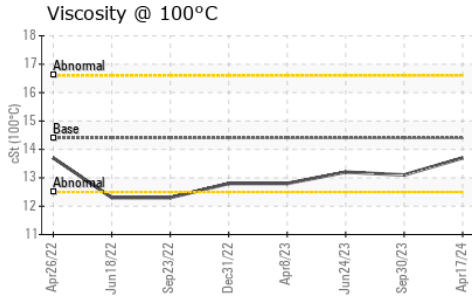
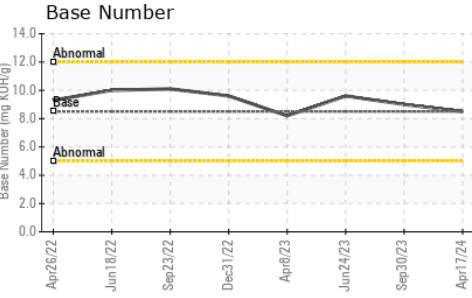
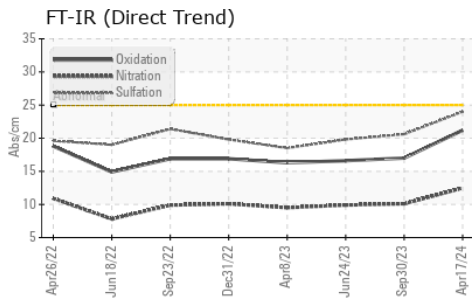
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>16</b>	11	7
Potassium	ppm	ASTM D5185m	>20	<b>17</b>	18	14
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.5</b>	10.1	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.0</b>	20.6	19.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	<b>0</b>	2	2
Boron	ppm	ASTM D5185m	250	<b>0</b>	3	2
Barium	ppm	ASTM D5185m	10	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>75</b>	67	66
Manganese	ppm	ASTM D5185m		<b>1</b>	1	1
Magnesium	ppm	ASTM D5185m	450	<b>1086</b>	1015	1032
Calcium	ppm	ASTM D5185m	3000	<b>1295</b>	1214	1180
Phosphorus	ppm	ASTM D5185m	1150	<b>1286</b>	1094	1099
Zinc	ppm	ASTM D5185m	1350	<b>1468</b>	1360	1363
Sulfur	ppm	ASTM D5185m	4250	<b>3359</b>	3040	3090
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.2</b>	17.0	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>8.5</b>	9.0	9.6
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.7</b>	13.1	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0745784 **Received** : 10 May 2024  
**Lab Number** : **06176582** **Tested** : 15 May 2024  
**Unique Number** : 11022635 **Diagnosed** : 15 May 2024 - Sean Felton  
**Test Package** : MOBCE ( Additional Tests: Glycol, TBN )

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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