



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**41198**  
 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. 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		<b>WC0883273</b>	WC0649867	WC0595003
Sample Date		Client Info		<b>05 Jan 2024</b>	05 Jul 2022	02 Nov 2021
Machine Age	mls	Client Info		<b>343414</b>	316357	257056
Oil Age	mls	Client Info		<b>15000</b>	0	26000
Filter Age	mls	Client Info		<b>15000</b>	0	26000
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>16</b>	18	32
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	3
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	6	2
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	7
Copper	ppm	ASTM D5185m	>330	<b>5</b>	6	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

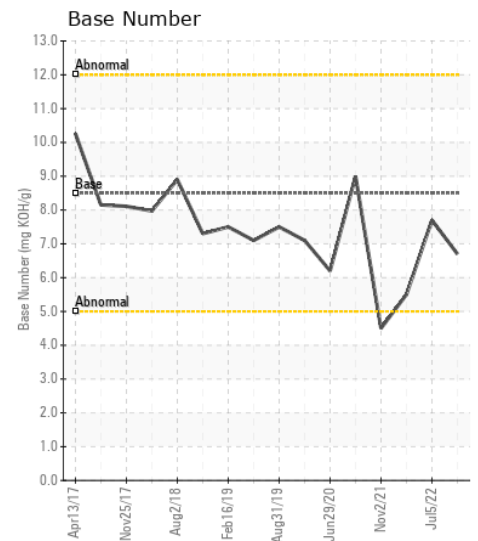
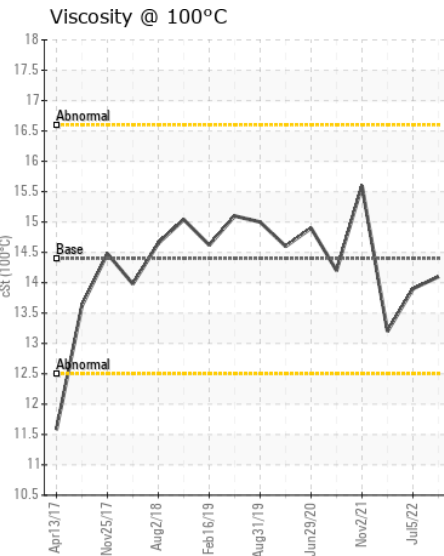
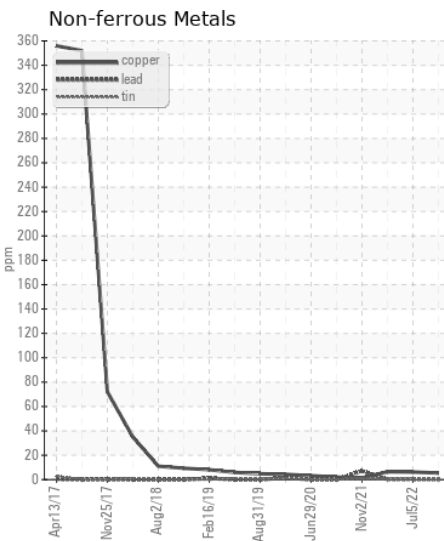
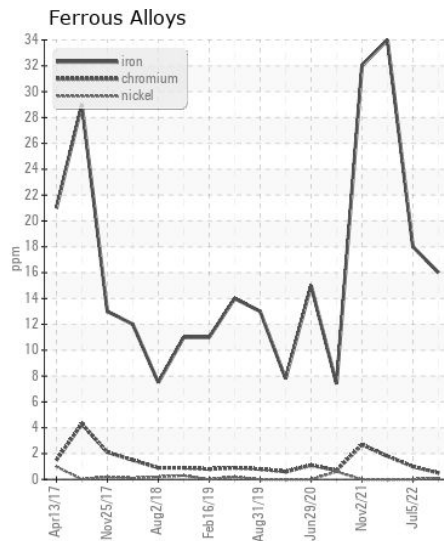
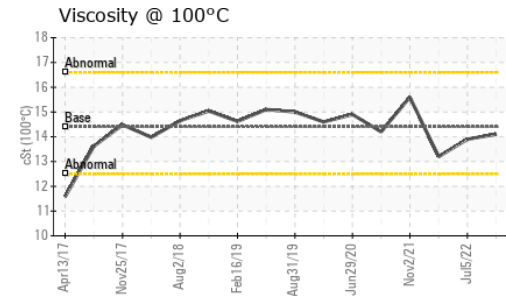
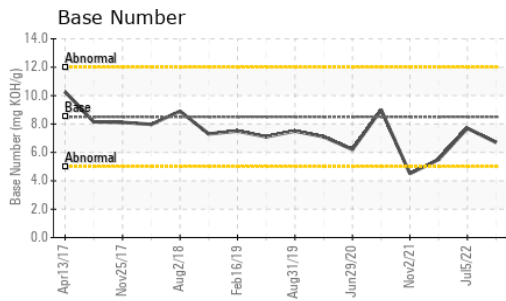
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.7	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.1</b>	11.2	11.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.2</b>	25.7	25.9
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>2</b>	2	<1
Boron	ppm	ASTM D5185m	250	<b>5</b>	6	11
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>58</b>	65	34
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>953</b>	931	275
Calcium	ppm	ASTM D5185m	3000	<b>1090</b>	1129	2371
Phosphorus	ppm	ASTM D5185m	1150	<b>1071</b>	1022	1040
Zinc	ppm	ASTM D5185m	1350	<b>1272</b>	1278	1346
Sulfur	ppm	ASTM D5185m	4250	<b>2930</b>	3135	3073
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.5</b>	21.8	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.7</b>	7.7	5.5
Visc @ 100°C	cSt	ASTM D445	14.4	<b>14.1</b>	13.9	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0883273 **Recieved** : 17 Jan 2024  
**Lab Number** : 06063400 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10834782 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

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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)