



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id  
**G1**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. 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>WC0874368</b>	WC0783980	WC0783996
Sample Date		Client Info		<b>09 Dec 2023</b>	24 Aug 2023	04 Apr 2023
Machine Age	hrs	Client Info		<b>10237</b>	9667	8989
Oil Age	hrs	Client Info		<b>569</b>	332	579
Filter Age	hrs	Client Info		<b>569</b>	0	579
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	>120	<b>12</b>	12	32
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	1	6
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

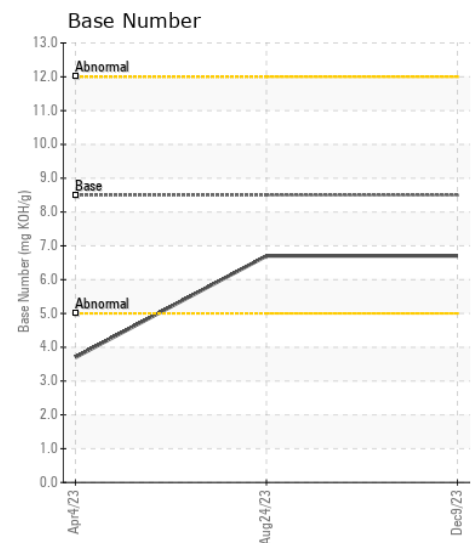
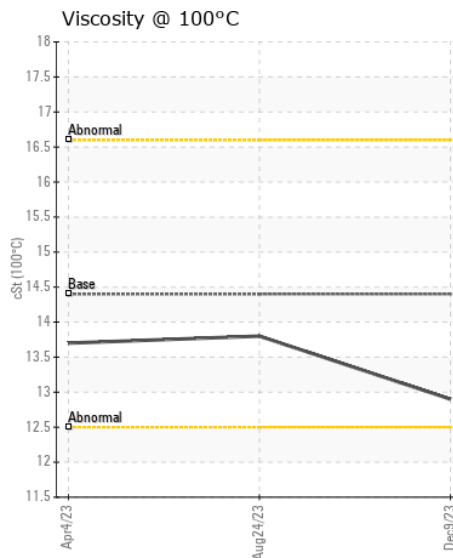
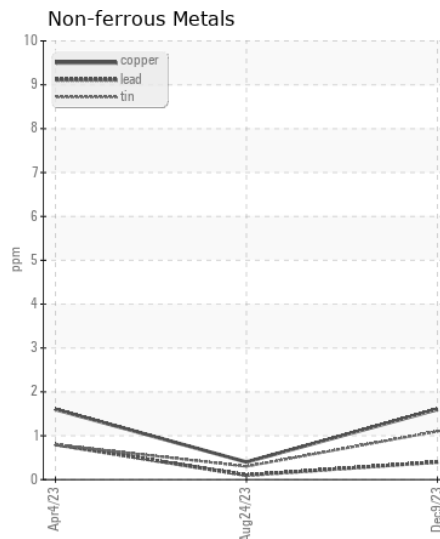
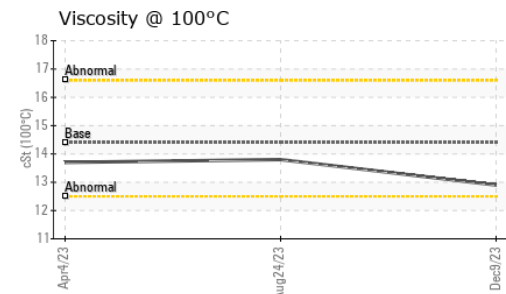
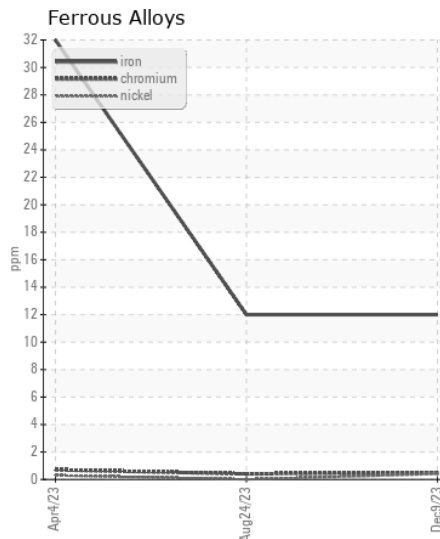
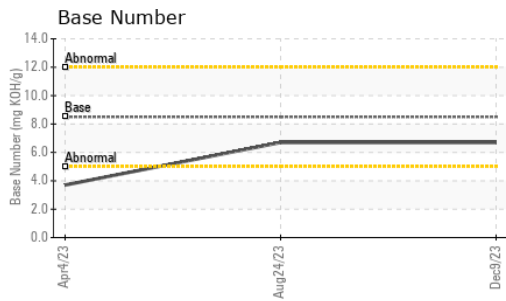
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	4	8
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	4
Fuel		WC Method	>3.0	<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	>4	<b>0.7</b>	0.5	1.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	8.2	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.3</b>	20.0	27.0
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>8</b>	5	4
Boron	ppm	ASTM D5185m	250	<b>8</b>	18	14
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>62</b>	75	80
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>846</b>	446	87
Calcium	ppm	ASTM D5185m	3000	<b>1203</b>	1864	2152
Phosphorus	ppm	ASTM D5185m	1150	<b>1026</b>	1021	925
Zinc	ppm	ASTM D5185m	1350	<b>1194</b>	1280	1190
Sulfur	ppm	ASTM D5185m	4250	<b>2659</b>	3861	3470
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.1</b>	14.4	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>6.7</b>	6.7	3.7
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.9</b>	13.8	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0874368 **Received** : 16 Jan 2024  
**Lab Number** : 06060547 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831929 **Diagnostician** : Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**Apple Valley Waste - EHT Location**  
 6626 Delilah Road  
 Egg Harbor Township, NJ  
 US 08234  
 Contact: Service Manager

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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F: