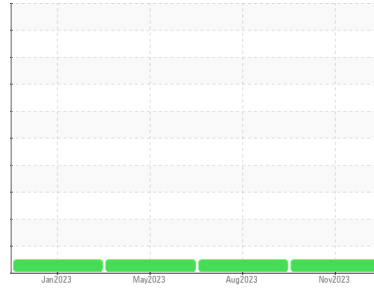




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id

**R25**

Component

**Diesel Engine**

Fluid

**DIESEL ENGINE OIL SAE 15W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0874359</b>	WC0783976	WC0783998
Sample Date	Client Info			<b>04 Nov 2023</b>	08 Aug 2023	13 May 2023
Machine Age	hrs	Client Info		<b>5210</b>	4644	4075
Oil Age	hrs	Client Info		<b>566</b>	571	653
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>15</b>	15	13
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>4</b>	5	7
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<b>68</b>	50	90
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>2</b>	4	15
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>687</b>	730	641
Calcium	ppm	ASTM D5185m	3000	<b>1271</b>	1363	1561
Phosphorus	ppm	ASTM D5185m	1150	<b>695</b>	677	701
Zinc	ppm	ASTM D5185m	1350	<b>800</b>	831	848
Sulfur	ppm	ASTM D5185m	4250	<b>2637</b>	3149	3285

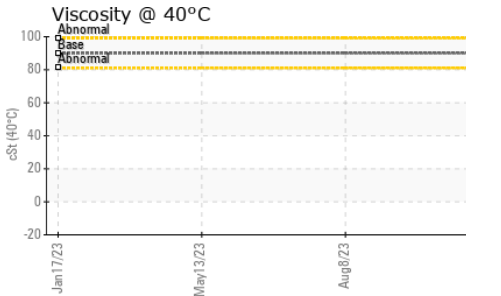
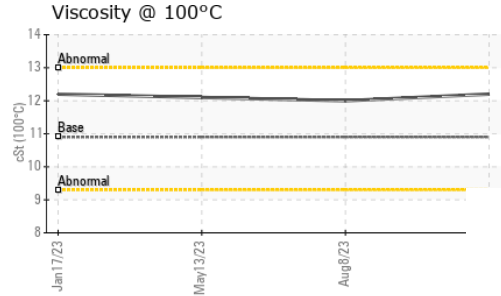
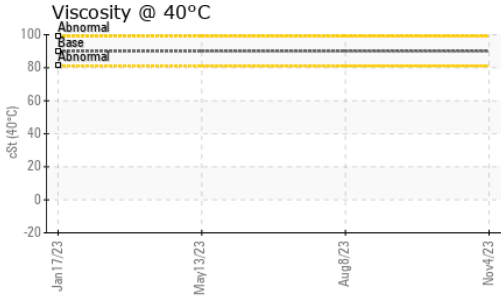
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>9</b>	5	7
Sodium	ppm	ASTM D5185m		<b>0</b>	4	2
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	5	3

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.9</b>	9.9	10.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.4</b>	21.7	22.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.7</b>	18.3	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>5.8</b>	5.8	6.0



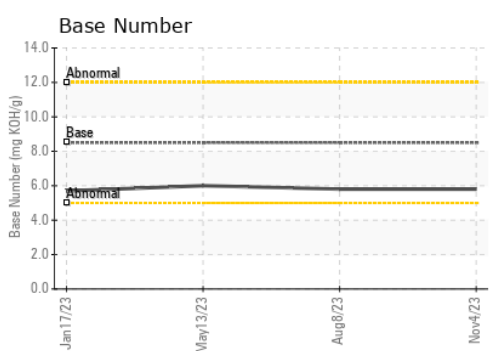
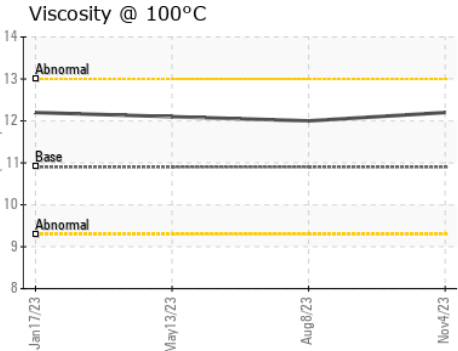
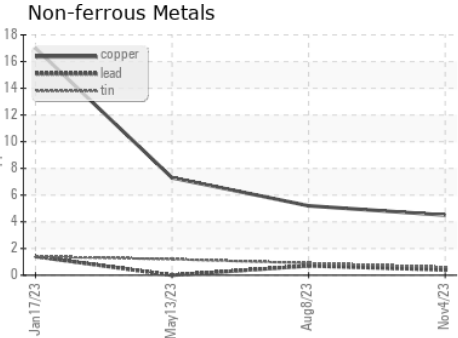
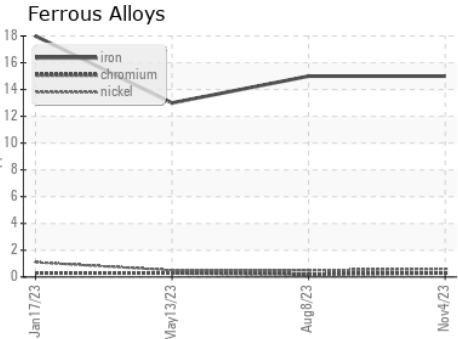
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 10.9	<b>12.2</b>	12.0	12.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0874359      **Received** : 15 Nov 2023  
**Lab Number** : 06008057      **Diagnosed** : 16 Nov 2023  
**Unique Number** : 10741819      **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: KV40, 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: