



# OIL ANALYSIS REPORT

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

Machine Id  
**GENERATOR 4**  
Component  
**Genset**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0746162</b>	WC0746156	WC0746114
Sample Date		Client Info		<b>28 Dec 2023</b>	16 Nov 2023	24 Sep 2023
Machine Age	hrs	Client Info		<b>12176</b>	11682	11098
Oil Age	hrs	Client Info		<b>500</b>	500	500
Filter Age	hrs	Client Info		<b>500</b>	500	500
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	>50	<b>25</b>	22	38
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>17	<b>2</b>	1	3
Copper	ppm	ASTM D5185m	>70	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185m	>15	<b>3</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

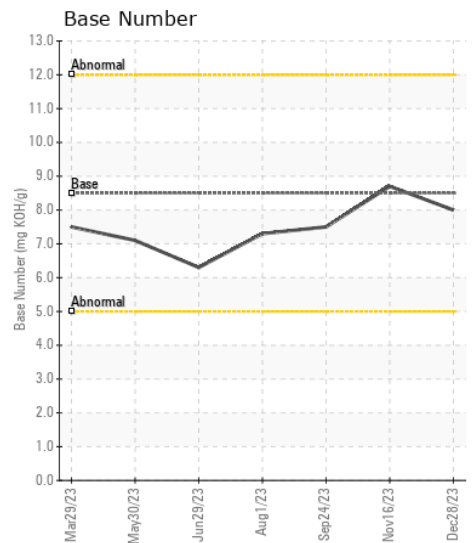
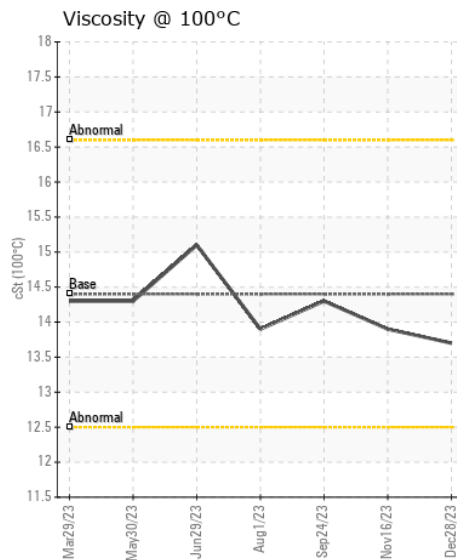
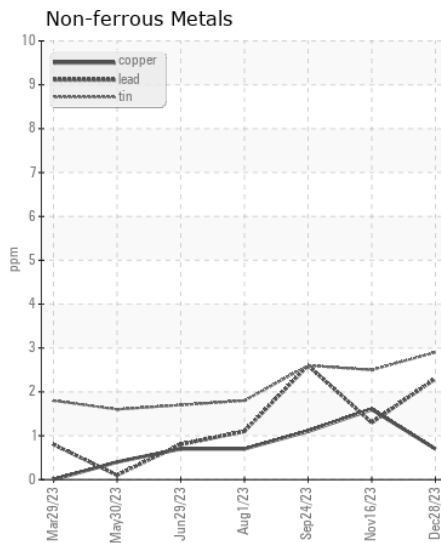
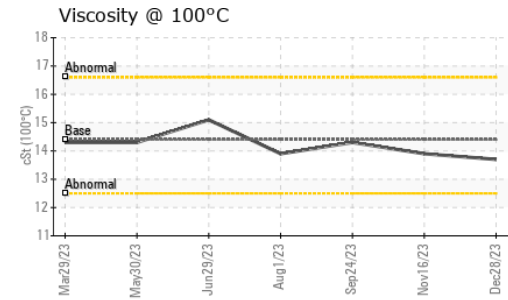
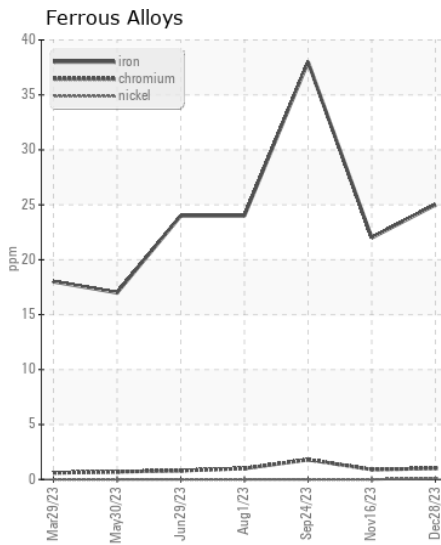
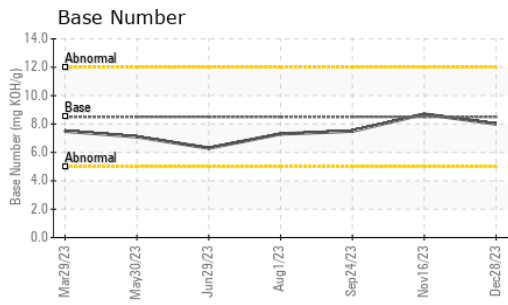
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	7	8
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.6</b>	1	1.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.3</b>	6.6	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.3</b>	21.1	19.9
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	>0.1	<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>6</b>	<1	2
Boron	ppm	ASTM D5185m	250	<b>147</b>	227	229
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	100	<b>65</b>	88	99
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>1122</b>	924	1183
Calcium	ppm	ASTM D5185m	3000	<b>803</b>	1132	1160
Phosphorus	ppm	ASTM D5185m	1150	<b>955</b>	761	1006
Zinc	ppm	ASTM D5185m	1350	<b>1173</b>	994	1221
Sulfur	ppm	ASTM D5185m	4250	<b>2985</b>	2540	3345
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.6</b>	13.0	11.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>8.0</b>	8.7	7.5
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.7</b>	13.9	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0746162 **Received** : 08 Jan 2024  
**Lab Number** : 06054643 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10820592 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**ASSOCIATED GRAIN TERMINALS**  
 13723 HWY 15  
 BRAITHWAITE, LA  
 US 70040  
 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)

T:  
F: