



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**GENERATOR 1**  
Component  
**Genset**  
Fluid  
**SAE 40W (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0746093</b>	WC0746157	WC0746115
Sample Date		Client Info		<b>05 Mar 2024</b>	16 Nov 2023	15 Jul 2023
Machine Age	hrs	Client Info		<b>17184</b>	16623	16167
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>8</b>	6	7
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>5</b>	2	2
Lead	ppm	ASTM D5185m	>17	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>70	<b>2</b>	2	<1
Tin	ppm	ASTM D5185m	>15	<b>1</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

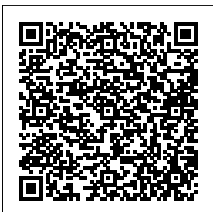
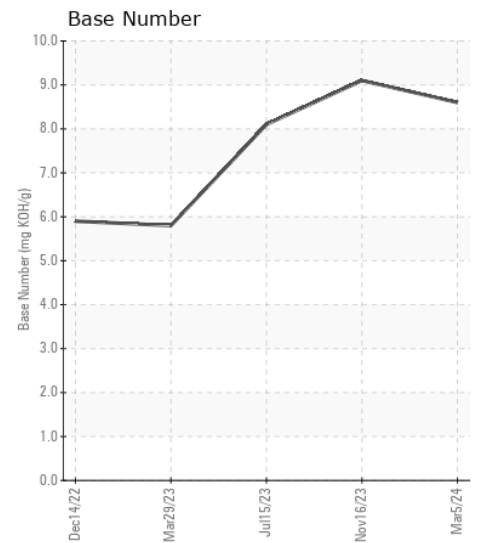
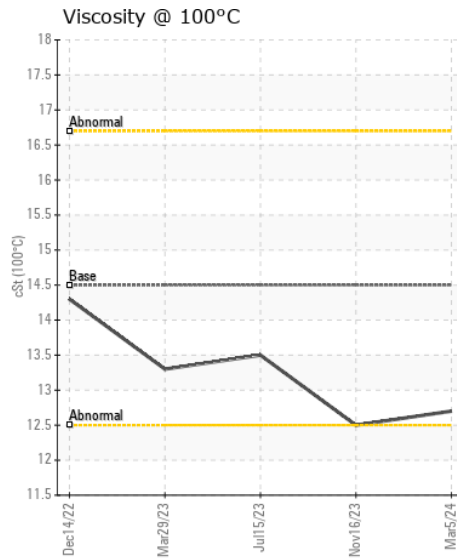
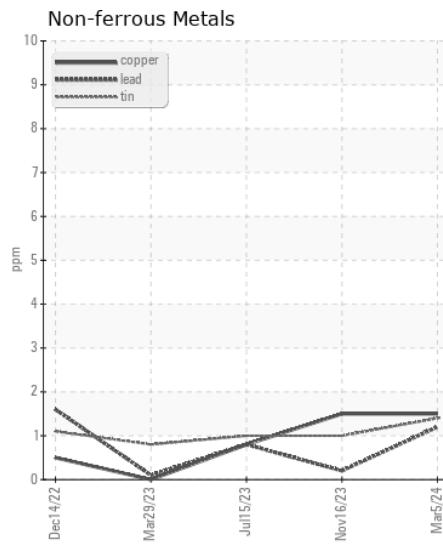
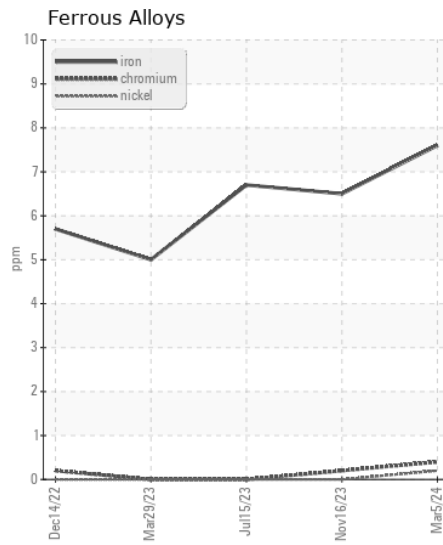
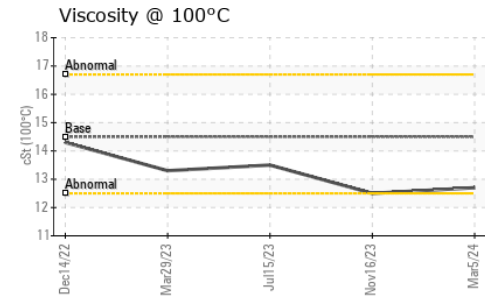
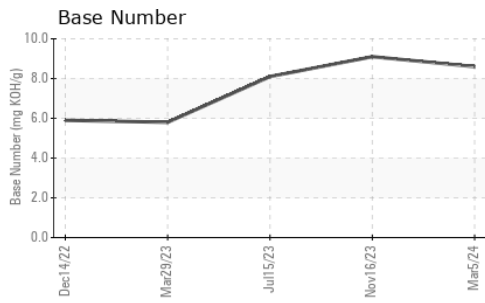
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>11</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	0
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>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.8</b>	6.3	5.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	21.4	19.6
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		<b>3</b>	<1	2
Boron	ppm	ASTM D5185m		<b>391</b>	301	331
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>143</b>	101	88
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1373</b>	779	417
Calcium	ppm	ASTM D5185m		<b>1743</b>	1390	2114
Phosphorus	ppm	ASTM D5185m		<b>1324</b>	727	689
Zinc	ppm	ASTM D5185m		<b>1510</b>	922	836
Sulfur	ppm	ASTM D5185m		<b>4659</b>	2548	3025
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.0</b>	14.9	12.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.6</b>	9.1	8.1
Visc @ 100°C	cSt	ASTM D445	14.5	<b>12.7</b>	12.5	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WC0746093

**Lab Number** : 06121498

**Unique Number** : 10930331

**Test Package** : FLEET

**Received** : 18 Mar 2024

**Tested** : 19 Mar 2024

**Diagnosed** : 21 Mar 2024 - Jonathan Hester

**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)

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F: