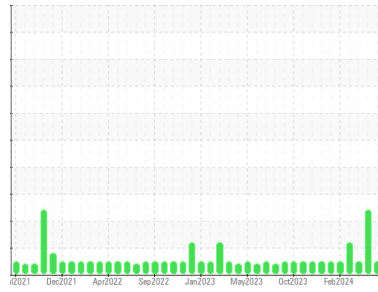




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Martinsville**  
 Machine ID  
**[Martinsville] Oil - Port Genset**  
 Component  
**Port Genset**  
 Fluid  
**MOBIL 15W40 (7 GAL)**

## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor. ( Customer Sample Comment: George Willis )

**Wear**  
 All component wear rates are normal.

**Contamination**  
 Fuel content negligible. 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>WC0898342</b>	WC0845899	WC0860092
Sample Date	Client Info			<b>06 Jul 2024</b>	07 Jun 2024	13 Apr 2024
Machine Age	hrs	Client Info		<b>7948</b>	7746	7153
Oil Age	hrs	Client Info		<b>119</b>	412	0
Oil Changed	Client Info			<b>Not Chngd</b>	Filtered	Changed
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>2</b>	3	<1
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>12	<b>1</b>	10	2
Lead	ppm	ASTM D5185m	>17	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>70	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>9</b>	11	13
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>63</b>	57	56
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1518</b>	1328	1310
Calcium	ppm	ASTM D5185m		<b>1248</b>	1058	1074
Phosphorus	ppm	ASTM D5185m		<b>1134</b>	983	1009
Zinc	ppm	ASTM D5185m		<b>1300</b>	1171	1160
Sulfur	ppm	ASTM D5185m		<b>4035</b>	3127	3267

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	3	5
Sodium	ppm	ASTM D5185m	>118	<b>2</b>	1	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	2
Fuel	%	ASTM D3524	>4.0	<b>0.3</b>	▲ 12.4	1.3
Water	%	ASTM D6304	>0.1	<b>NEG</b>	NEG	NEG

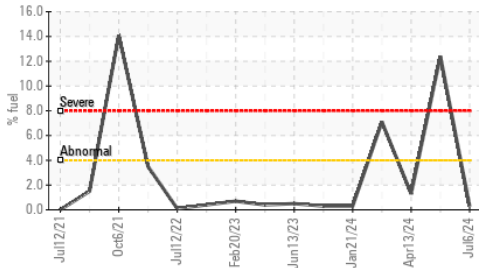
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.0</b>	7.0	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.2</b>	17.5	19.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.9</b>	13.2	16.9
Base Number (BN)	mg KOH/g	ASTM D2896		<b>12.76</b>	10.50	6.77

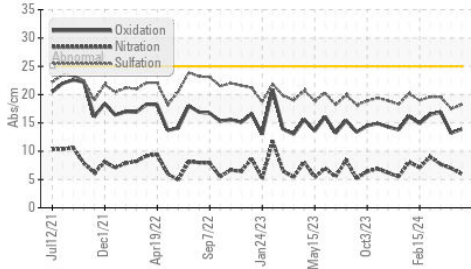


# OIL ANALYSIS REPORT

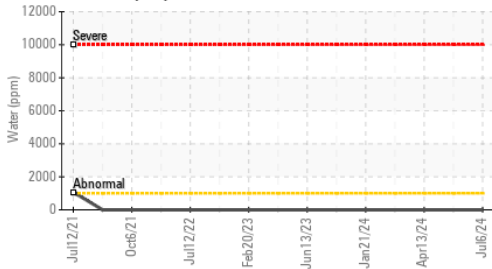
### Fuel Dilution



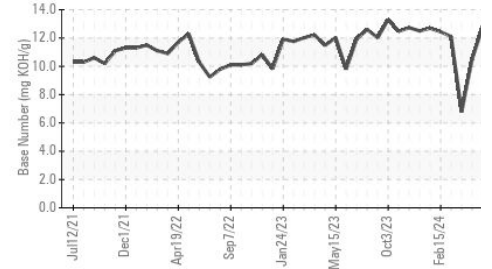
### FT-IR (Direct Trend)



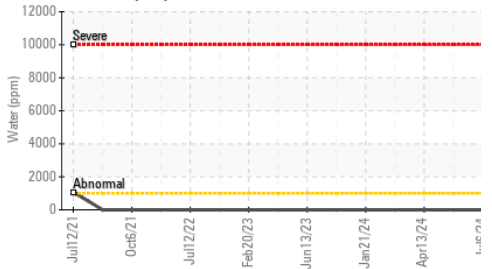
### Water (KF)



### Base Number



### Water (KF)

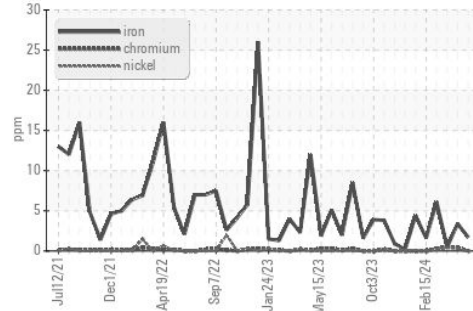


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

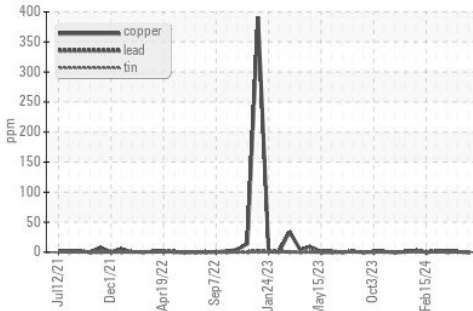
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.3	▲ 9.2	14.0

### GRAPHS

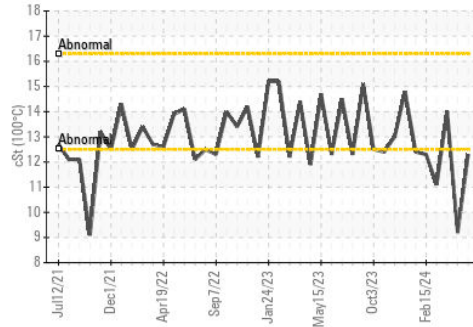
### Ferrous Alloys



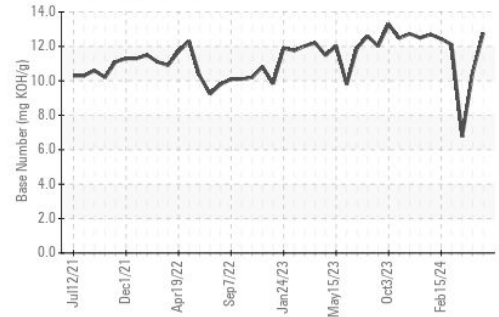
### Non-ferrous Metals



### Viscosity @ 100°C



### Base Number



Certificate L2367

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

Sample No. : WC0898342

Lab Number : 06236267

Unique Number : 11125101

Test Package : IND 2 ( Additional Tests: KF, PercentFuel )

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)

Received : 15 Jul 2024

Tested : 16 Jul 2024

Diagnosed : 16 Jul 2024 - Sean Felton

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US 41169

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