



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

Area  
**ROBERT W TAYLOR**  
Machine Id  
[ROBERT W TAYLOR] 007 568680-7  
Component  
Port Genset  
Fluid  
SHELL ROTELLA T 15W40 (--- GAL)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0072248</b>	MW0072204	MW0061515
Sample Date		Client Info		<b>02 Jul 2024</b>	03 Jun 2024	02 May 2024
Machine Age	hrs	Client Info		<b>28020</b>	33691	31830
Oil Age	hrs	Client Info		<b>132</b>	252	298
Filter Age	hrs	Client Info		<b>132</b>	252	298
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>5</b>	4	8
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	2	4
Lead	ppm	ASTM D5185m	>17	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>70	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<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.

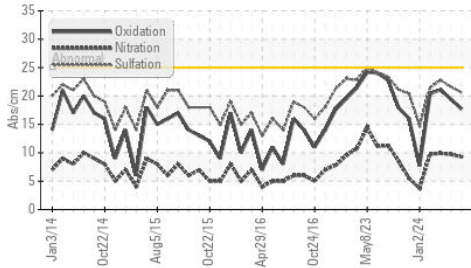
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	4	7
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	7	13
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.3</b>	9.7	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.6</b>	21.6	22.8
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**

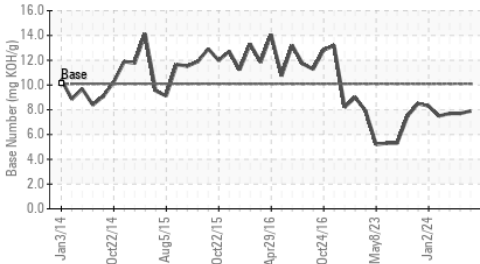
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	2	4
Boron	ppm	ASTM D5185m	316	<b>93</b>	133	225
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	1.2	<b>35</b>	33	8
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	24	<b>143</b>	174	50
Calcium	ppm	ASTM D5185m	2292	<b>2334</b>	2449	3377
Phosphorus	ppm	ASTM D5185m	1064	<b>1038</b>	1022	1473
Zinc	ppm	ASTM D5185m	1160	<b>1234</b>	1321	1818
Sulfur	ppm	ASTM D5185m	4996	<b>4141</b>	4223	5144
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.7</b>	19.4	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>7.9</b>	7.7	7.7
Visc @ 100°C	cSt	ASTM D445	15.7	<b>13.0</b>	14.0	14.4

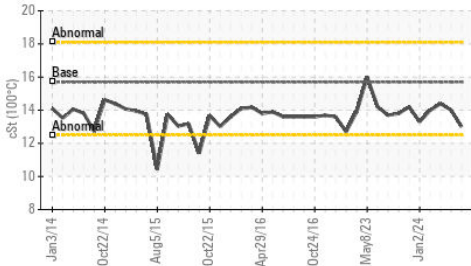
**FT-IR (Direct Trend)**



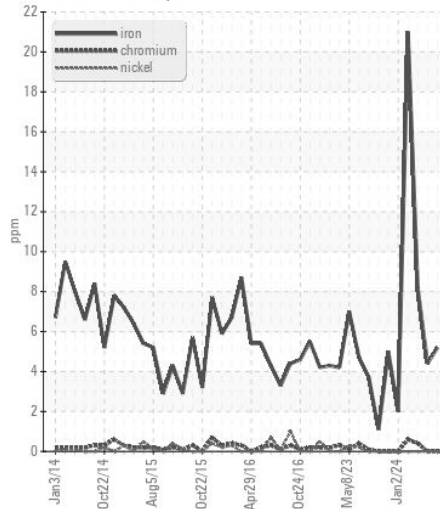
**Base Number**



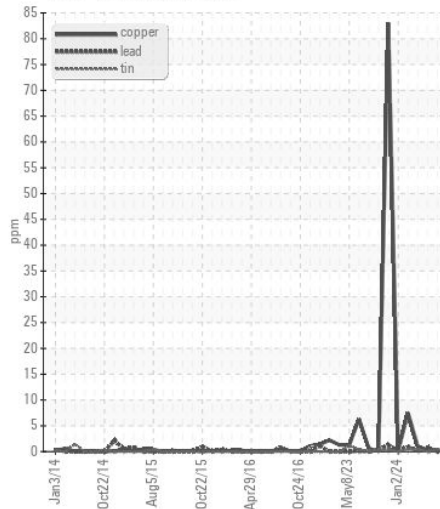
**Viscosity @ 100°C**



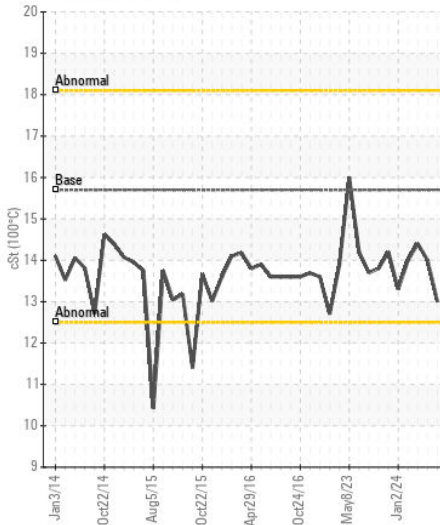
**Ferrous Alloys**



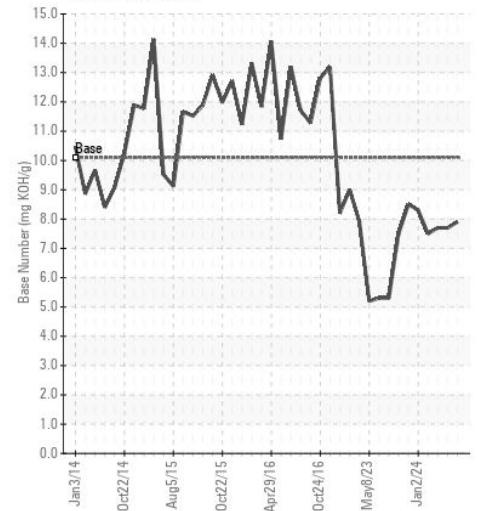
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

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

**Sample No.** : MW0072248

**Lab Number** : 06231894

**Unique Number** : 11115387

**Test Package** : MAR 2

**Received** : 09 Jul 2024

**Tested** : 10 Jul 2024

**Diagnosed** : 10 Jul 2024 - Wes Davis

**INGRAM BARGE**

900 S 3RD ST

PADUCAH, KY

US 42003

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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)