



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

Area  
**ROBERT W TAYLOR**  
Machine Id  
[ROBERT W TAYLOR] 001 568680-1  
Component  
Port Main Engine  
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>MW0063106</b>	MW0063116	MW0062956
Sample Date		Client Info		<b>03 Feb 2024</b>	02 Jan 2024	01 Dec 2023
Machine Age	hrs	Client Info		<b>1747</b>	15760	1831
Oil Age	hrs	Client Info		<b>262</b>	41	345
Filter Age	hrs	Client Info		<b>262</b>	41	345
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>8</b>	3	5
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>18	<b>2</b>	<1	<1
Copper	ppm	ASTM D5185m	>80	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m	>14	<b>1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

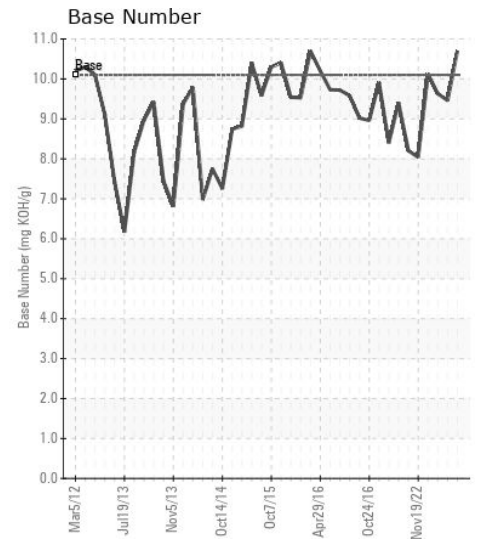
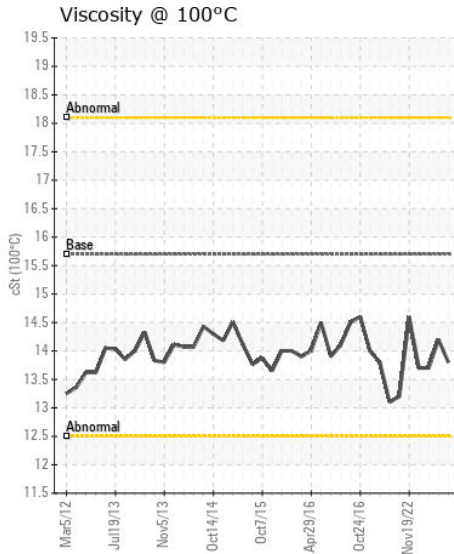
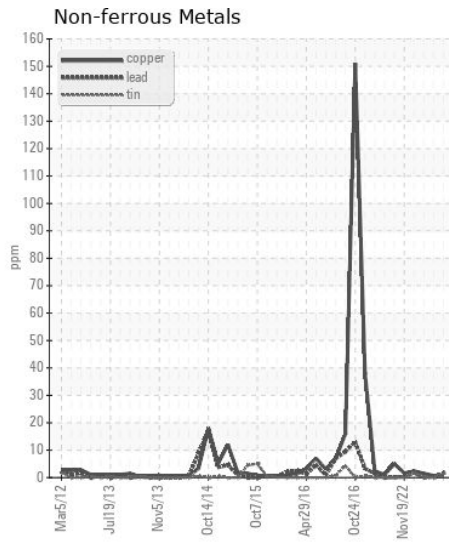
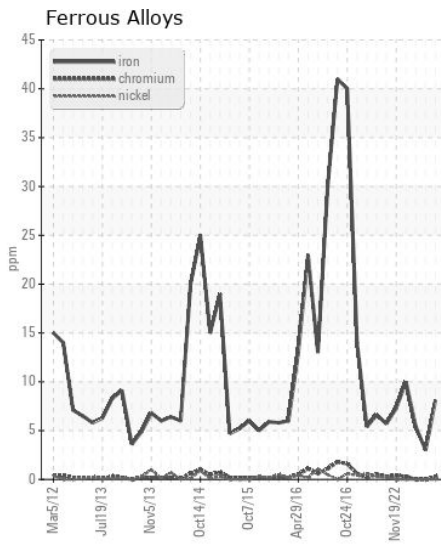
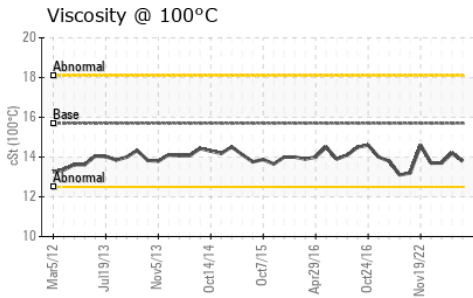
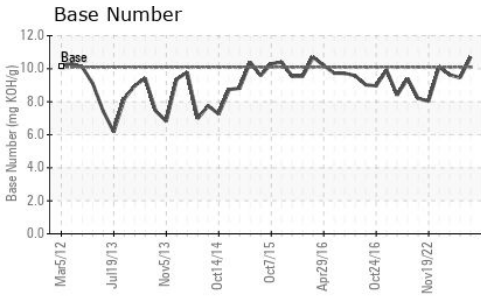
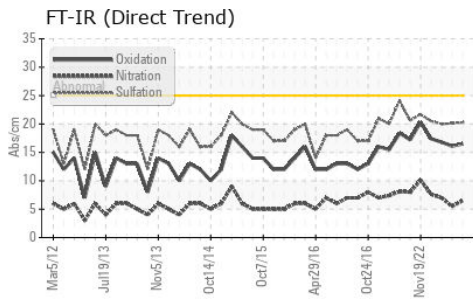
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>8</b>	6	13
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	7	6
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>6.5</b>	5.5	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.3</b>	20.1	20.0
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	>75	<b>2</b>	1	3
Boron	ppm	ASTM D5185m	316	<b>216</b>	267	176
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	1.2	<b>15</b>	17	10
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	24	<b>95</b>	90	65
Calcium	ppm	ASTM D5185m	2292	<b>1996</b>	2002	2038
Phosphorus	ppm	ASTM D5185m	1064	<b>942</b>	982	970
Zinc	ppm	ASTM D5185m	1160	<b>1109</b>	1132	1116
Sulfur	ppm	ASTM D5185m	4996	<b>3286</b>	3637	3575
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.5</b>	16.1	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>10.70</b>	9.46	9.63
Visc @ 100°C	cSt	ASTM D445	15.7	<b>13.8</b>	14.2	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0063106  
**Lab Number** : 06084336  
**Unique Number** : 10871781  
**Test Package** : MAR 2  
**Received** : 08 Feb 2024  
**Tested** : 09 Feb 2024  
**Diagnosed** : 12 Feb 2024 - Don Baldrige

**INGRAM BARGE**  
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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)