



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

Area

**WILLARD HAMMOND**

Machine Id

**[WILLARD HAMMOND] 007 587215-7**

Component

**Port Genset**

Fluid

**CHEVRON DELO 400 MULTIGRADE 15W40 (4 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0064390</b>	MW0058403	MW0051340
Sample Date		Client Info		<b>01 Jan 2024</b>	29 Nov 2023	02 Oct 2023
Machine Age	hrs	Client Info		<b>30472</b>	29980	29405
Oil Age	hrs	Client Info		<b>0</b>	0	209
Filter Age	hrs	Client Info		<b>0</b>	0	209
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>3</b>	2	1
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	2
Aluminum	ppm	ASTM D5185m	>12	<b>3</b>	3	3
Lead	ppm	ASTM D5185m	>17	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>70	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
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**

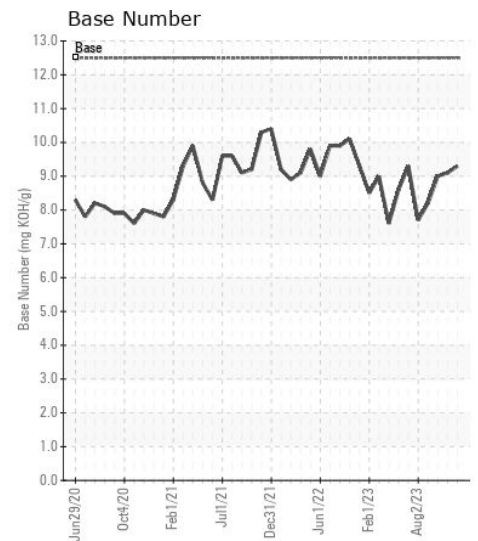
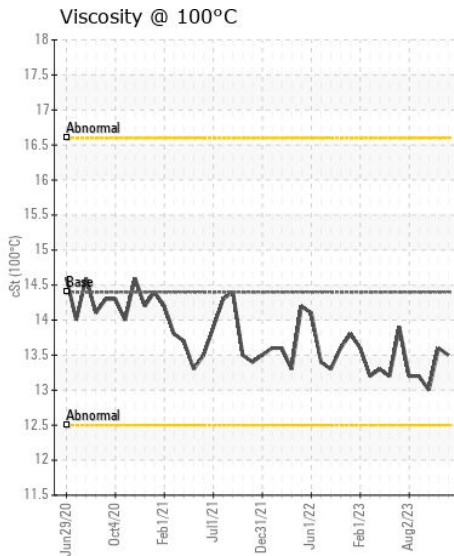
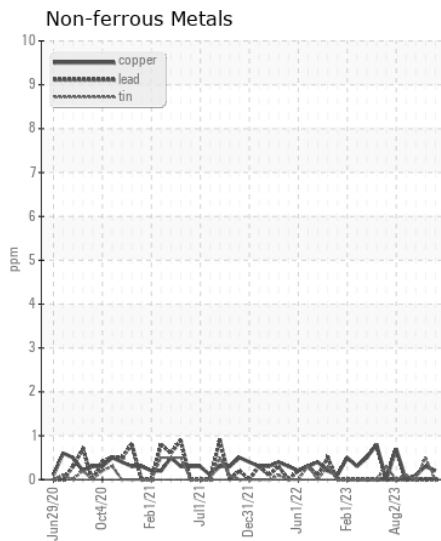
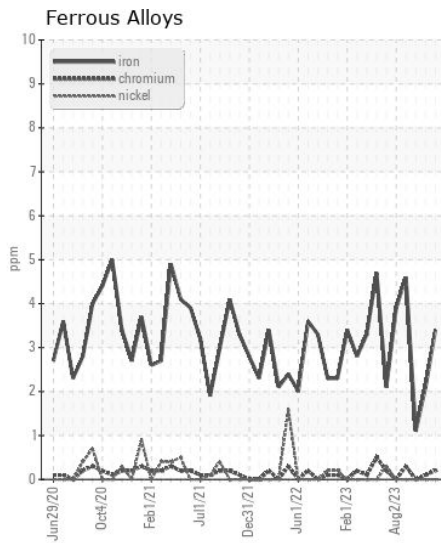
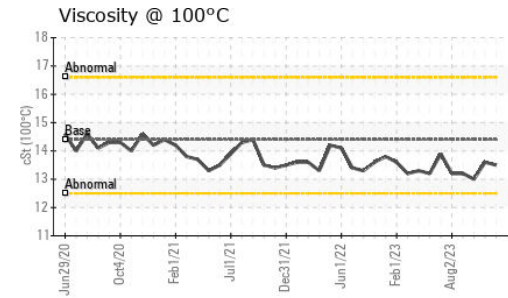
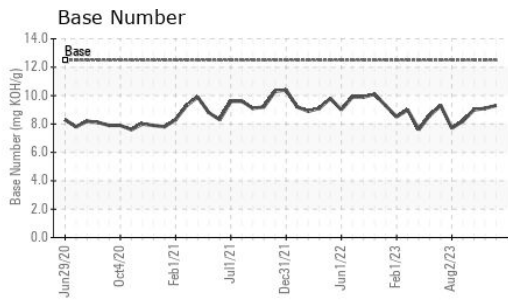
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	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>	5.5	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.6</b>	22.7	23.1
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>0</b>	1	<1
Boron	ppm	ASTM D5185m	151	<b>357</b>	372	311
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>123</b>	124	121
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>642</b>	673	659
Calcium	ppm	ASTM D5185m	2046	<b>1610</b>	1577	1594
Phosphorus	ppm	ASTM D5185m	1043	<b>758</b>	746	711
Zinc	ppm	ASTM D5185m	943	<b>804</b>	864	852
Sulfur	ppm	ASTM D5185m	5012	<b>2881</b>	2720	2454
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.2</b>	15.6	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	<b>9.3</b>	9.1	9.0
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.5</b>	13.6	13.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0064390 **Recieved** : 12 Jan 2024  
**Lab Number** : 06059898 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10831280 **Diagnostician** : Wes Davis  
**Test Package** : MAR 2

**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)