



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

Machine Id  
**HAL PANNELL (S/N RG-6081A303563)**

Component  
**Port Genset**

Fluid  
**CHEVRON DELO 710 LE (7 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0066524</b>	MW0047886	MW0047877
Sample Date		Client Info		<b>17 Jan 2024</b>	05 Nov 2023	10 May 2023
Machine Age	hrs	Client Info		<b>1361</b>	298	22587
Oil Age	hrs	Client Info		<b>583</b>	298	335
Filter Age	hrs	Client Info		<b>583</b>	0	335
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	SEVERE

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>33</b>	19	▲ 46
Chromium	ppm	ASTM D5185m	>4	<b>3</b>	1	4
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>12	<b>1</b>	2	3
Lead	ppm	ASTM D5185m	>17	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m	>70	<b>7</b>	20	<1
Tin	ppm	ASTM D5185m	>15	<b>&lt;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**

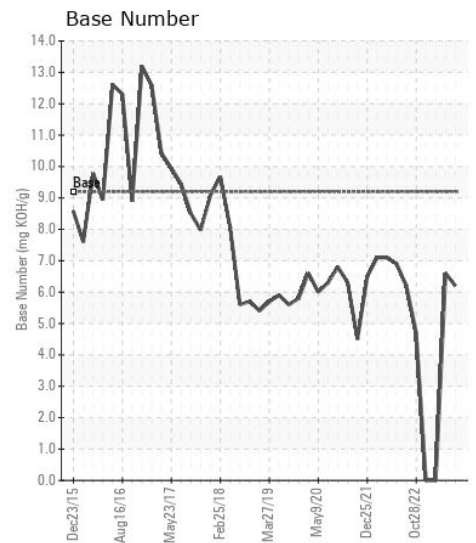
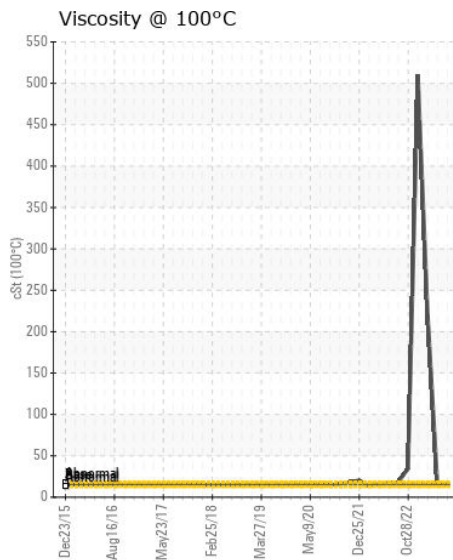
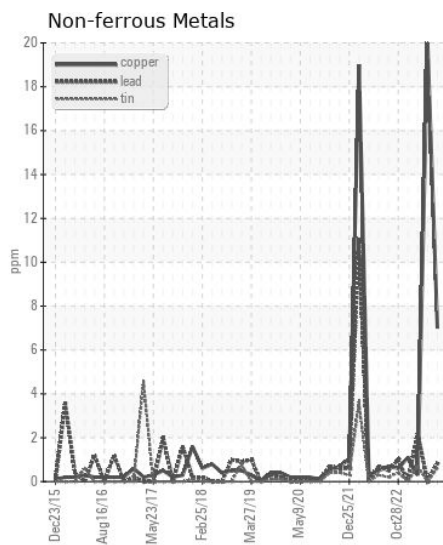
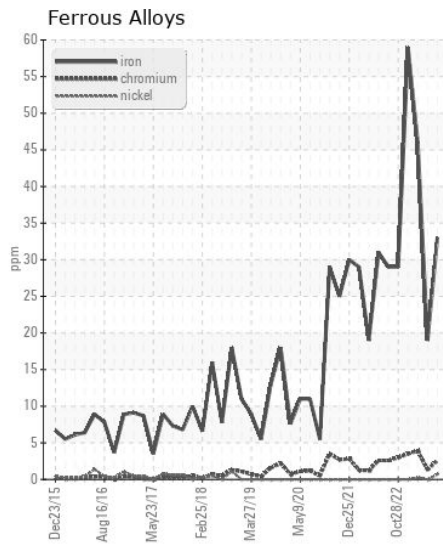
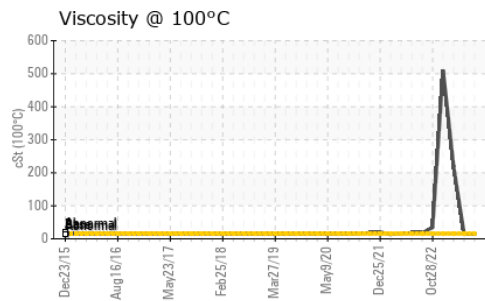
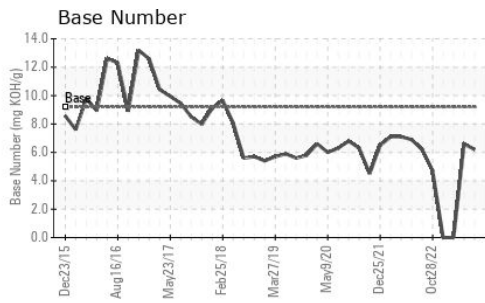
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>12</b>	17	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
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>0.2</b>	0.1	● 6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	7.0	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.1</b>	14.8	25.6
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>0</b>	2	2
Boron	ppm	ASTM D5185m		<b>45</b>	44	34
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>48</b>	41	50
Manganese	ppm	ASTM D5185m		<b>2</b>	3	1
Magnesium	ppm	ASTM D5185m		<b>29</b>	64	25
Calcium	ppm	ASTM D5185m		<b>3545</b>	2891	3719
Phosphorus	ppm	ASTM D5185m		<b>34</b>	85	0
Zinc	ppm	ASTM D5185m	10	<b>4</b>	54	8
Sulfur	ppm	ASTM D5185m		<b>2400</b>	2192	2444
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.4</b>	9.0	12.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	<b>6.2</b>	6.6	▲ 0.0
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.1</b>	14.0	▲ 220



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0066524  
**Lab Number** : 06085240  
**Unique Number** : 10872685  
**Test Package** : MAR 2

**Received** : 09 Feb 2024  
**Tested** : 12 Feb 2024  
**Diagnosed** : 12 Feb 2024 - Wes Davis

**AMERICAN COMMERCIAL LINES**  
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 US 47130  
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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)

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