



Machine Id  
**SONNY IVEY (S/N PE6068G838012)**

Component  
**Port Genset**

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

**RECOMMENDATION**

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0031213</b>	MWM674622	MW0044778
Sample Date		Client Info		<b>03 Feb 2024</b>	04 Dec 2023	02 Jul 2023
Machine Age	hrs	Client Info		<b>33298</b>	33162	32292
Oil Age	hrs	Client Info		<b>164</b>	164	250
Filter Age	hrs	Client Info		<b>164</b>	0	250
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

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

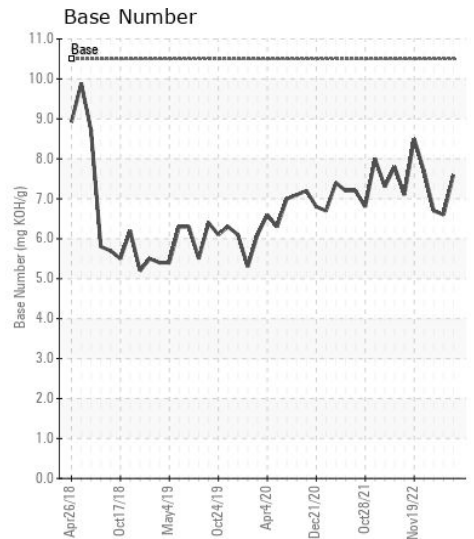
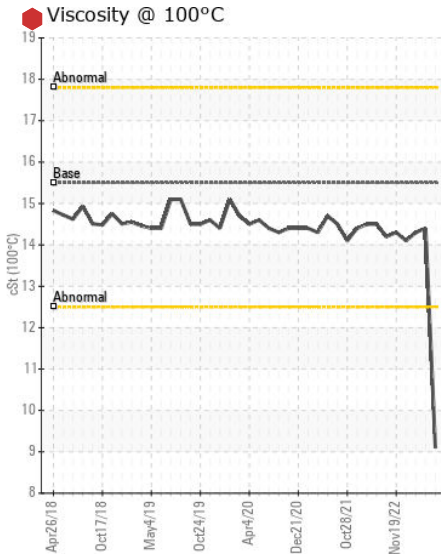
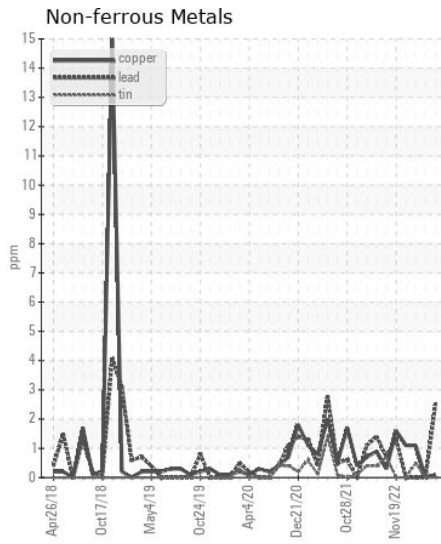
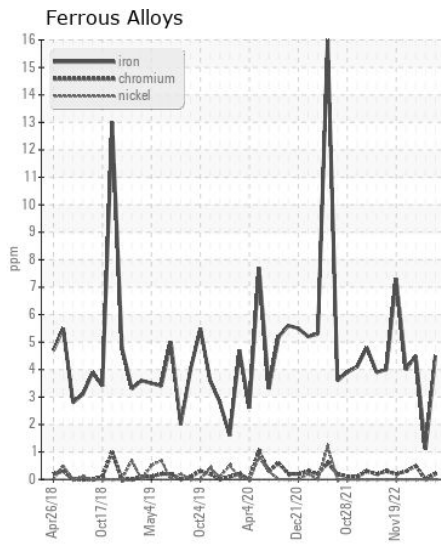
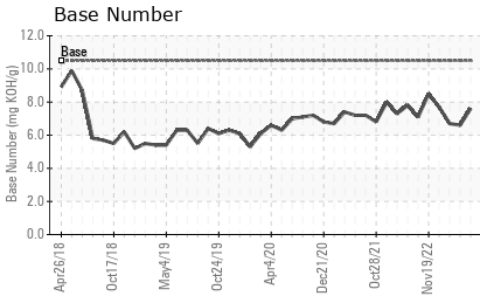
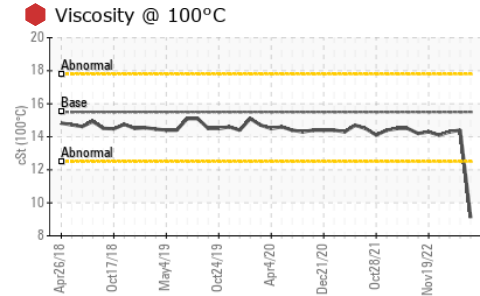
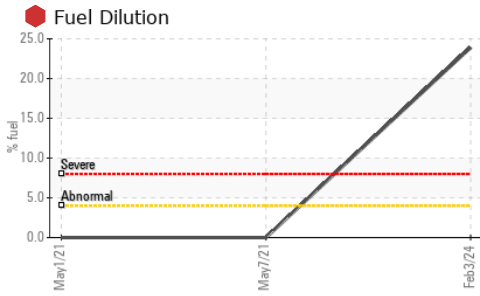
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	2	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	1
Fuel	%	ASTM D3524	>4.0	<b>23.9</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>10.6</b>	6.8	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.0</b>	14.3	15.4
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. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	1
Boron	ppm	ASTM D5185m		<b>28</b>	38	41
Barium	ppm	ASTM D5185m		<b>8</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>28</b>	37	42
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>7</b>	13	12
Calcium	ppm	ASTM D5185m		<b>2108</b>	3141	3463
Phosphorus	ppm	ASTM D5185m		<b>24</b>	4	3
Zinc	ppm	ASTM D5185m		<b>9</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>1638</b>	2262	2772
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.9</b>	7.8	9.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>7.6</b>	6.6	6.7
Visc @ 100°C	cSt	ASTM D445	15.5	<b>9.1</b>	14.4	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0031213 **Received** : 14 Feb 2024  
**Lab Number** : 06088504 **Tested** : 15 Feb 2024  
**Unique Number** : 10875949 **Diagnosed** : 15 Feb 2024 - Wes Davis  
**Test Package** : MAR 2 ( Additional Tests: FuelDilution, PercentFuel )

**AMERICAN COMMERCIAL LINES**  
 PO BOX 610, 1701 E. MARKET STREET  
 JEFFERSONVILLE, IN  
 US 47130  
 Contact: RONALD SCHNEIDER  
 ronald.schneider@bargeacbl.com

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) F: (812)288-1644