



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

Area  
**A.A. BIRCH**  
Machine Id  
**[A.A. BIRCH] 007 616455-7**  
Component  
**Port Genset**  
Fluid  
**CHEVRON DELO 400 XLE 15W40 (250 GAL)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0060244</b>	MW0060282	MW05942823
Sample Date		Client Info		<b>13 Nov 2023</b>	15 Oct 2023	22 Aug 2023
Machine Age	hrs	Client Info		<b>4690</b>	4329	3683
Oil Age	hrs	Client Info		<b>355</b>	300	272
Filter Age	hrs	Client Info		<b>355</b>	300	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	N/A
Filter Changed		Client Info		<b>Changed</b>	Not Changd	N/A
Sample Status				<b>MARGINAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>6</b>	5	5
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	3	2
Lead	ppm	ASTM D5185m	>17	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>70	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
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**

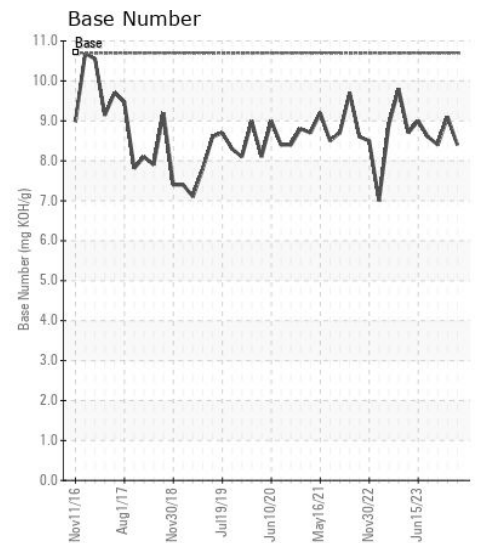
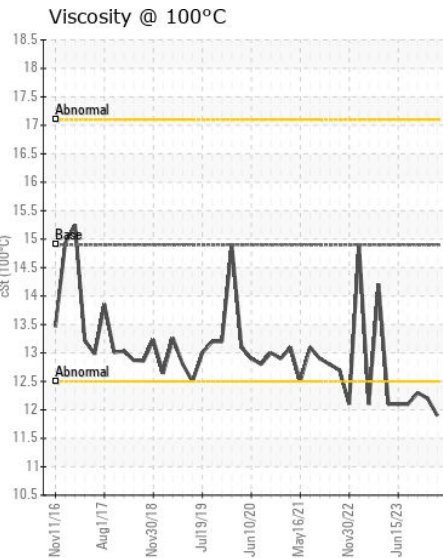
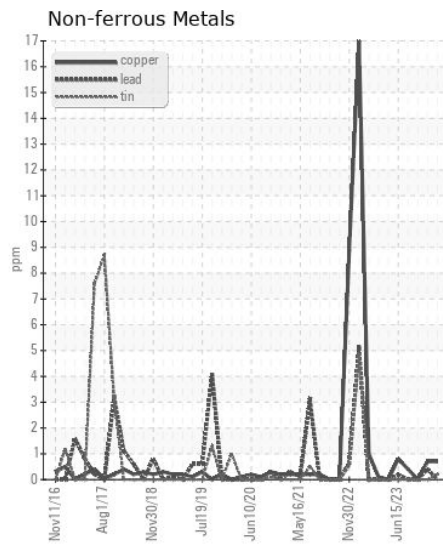
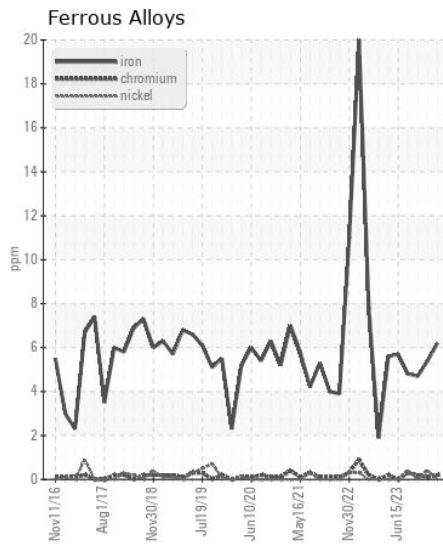
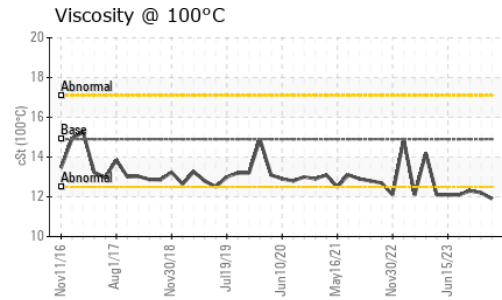
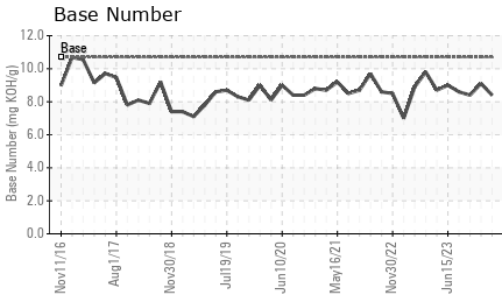
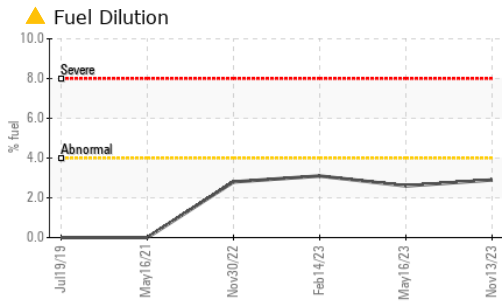
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	7	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Fuel	%	ASTM D3524	>4.0	<b>▲ 2.9</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>8.0</b>	7.2	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.1</b>	23.0	21.7
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>	0	<1
Boron	ppm	ASTM D5185m		<b>299</b>	415	298
Barium	ppm	ASTM D5185m		<b>0</b>	9	<1
Molybdenum	ppm	ASTM D5185m		<b>105</b>	135	115
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>575</b>	632	675
Calcium	ppm	ASTM D5185m		<b>1423</b>	1477	1505
Phosphorus	ppm	ASTM D5185m	760	<b>725</b>	719	670
Zinc	ppm	ASTM D5185m	830	<b>795</b>	813	809
Sulfur	ppm	ASTM D5185m	2770	<b>2746</b>	2629	2856
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.3</b>	17.4	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>8.4</b>	9.1	8.4
Visc @ 100°C	cSt	ASTM D445	14.9	<b>11.9</b>	12.2	12.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0060244 **Received** : 11 Jan 2024  
**Lab Number** : 06058639 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10830021 **Diagnostician** : Wes Davis  
**Test Package** : MAR 2 ( Additional Tests: FuelDilution, PercentFuel )

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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