



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

Area  
**FRANK JOHNSON**  
Machine Id  
**[FRANK JOHNSON] 007 298198-7**  
Component  
**Port Genset**  
Fluid  
**CHEVRON DELO 400 XLE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0065689</b>	MW0068012	MW0066217
Sample Date		Client Info		<b>26 Apr 2024</b>	05 Apr 2024	18 Mar 2024
Machine Age	hrs	Client Info		<b>2496</b>	2229	2001
Oil Age	hrs	Client Info		<b>495</b>	228	238
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>10</b>	8	5
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	1	0
Titanium	ppm	ASTM D5185m		<b>8</b>	1	8
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>17	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>70	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
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.

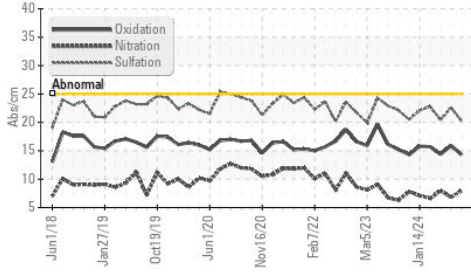
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	18
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.5</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.0</b>	6.8	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.2</b>	22.6	20.4
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**

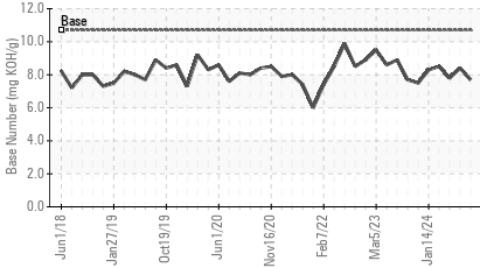
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	4
Boron	ppm	ASTM D5185m		<b>180</b>	247	154
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>72</b>	109	71
Manganese	ppm	ASTM D5185m		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>719</b>	576	649
Calcium	ppm	ASTM D5185m		<b>1597</b>	1586	1595
Phosphorus	ppm	ASTM D5185m	760	<b>741</b>	673	719
Zinc	ppm	ASTM D5185m	830	<b>833</b>	728	802
Sulfur	ppm	ASTM D5185m	2770	<b>3380</b>	2750	3303
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.3</b>	15.9	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>7.7</b>	8.4	7.8
Visc @ 100°C	cSt	ASTM D445	14.9	<b>13.9</b>	13.5	13.5

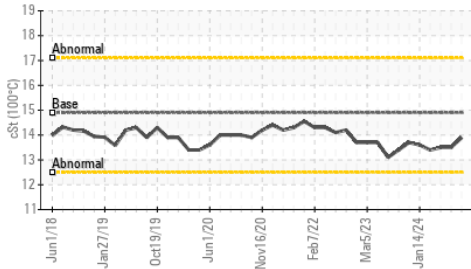
FT-IR (Direct Trend)



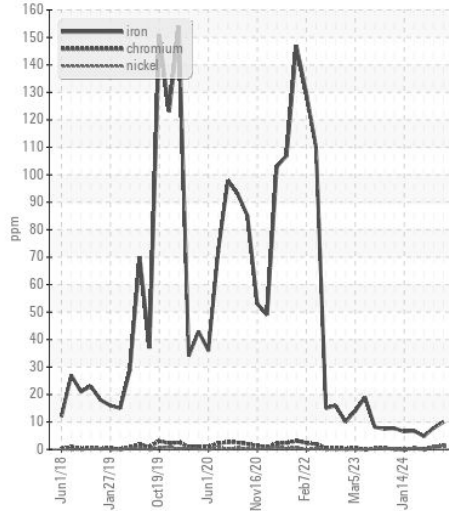
Base Number



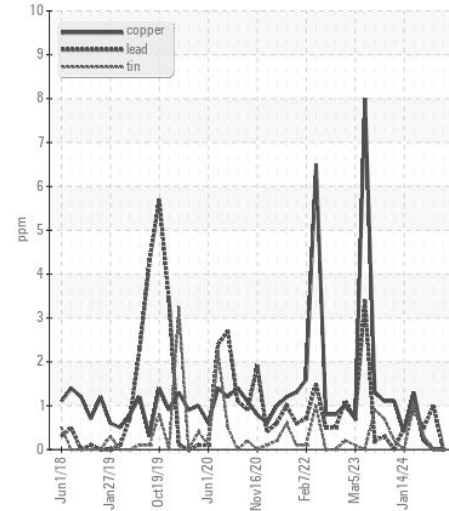
Viscosity @ 100°C



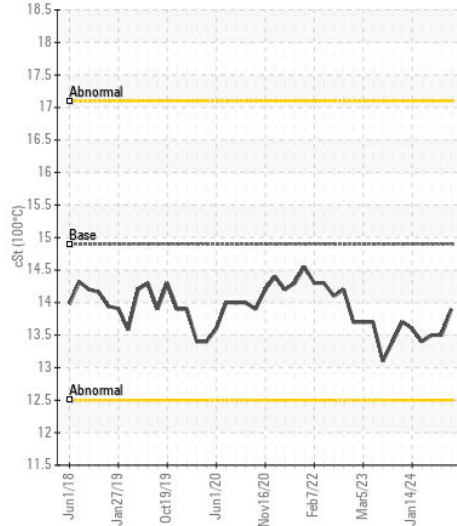
Ferrous Alloys



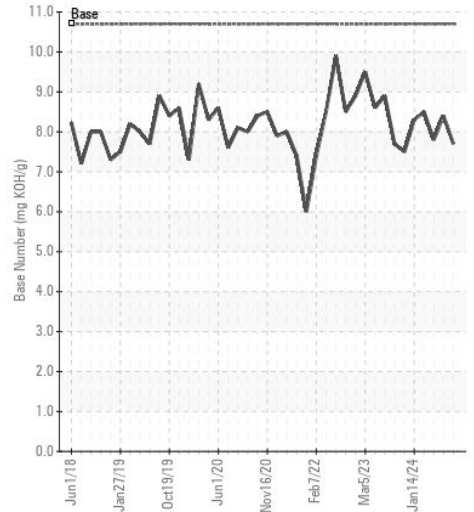
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : MW0065689

Lab Number : 06191629

Unique Number : 11048381

Test Package : MAR 2

Received : 24 May 2024

Tested : 29 May 2024

Diagnosed : 29 May 2024 - Wes Davis

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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)