



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

Area  
**CGE**  
Machine Id  
Component  
**CGE**  
Center Main Engine  
Fluid  
**CHEVRON DELO 710 LS (350 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0061057</b>	MW0061091	MW0061095
Sample Date		Client Info		<b>13 May 2024</b>	17 Mar 2024	30 Jan 2024
Machine Age	hrs	Client Info		<b>25773</b>	89680	88585
Oil Age	hrs	Client Info		<b>6382</b>	24636	23543
Filter Age	hrs	Client Info		<b>1116</b>	1098	1153
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>20</b>	19	23
Chromium	ppm	ASTM D5185m	>8	<b>1</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>1</b>	2	3
Lead	ppm	ASTM D5185m	>18	<b>6</b>	9	8
Copper	ppm	ASTM D5185m	>80	<b>21</b>	21	24
Tin	ppm	ASTM D5185m	>14	<b>4</b>	7	5
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**

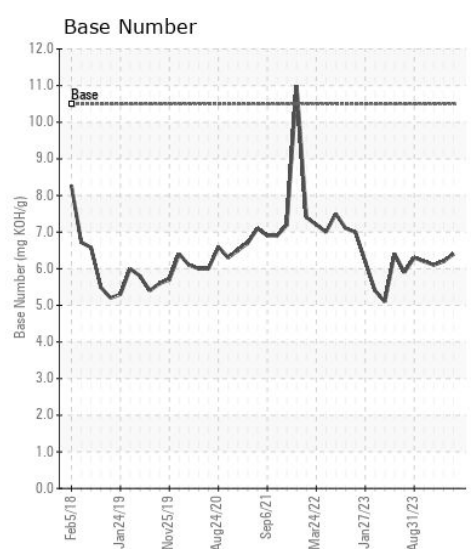
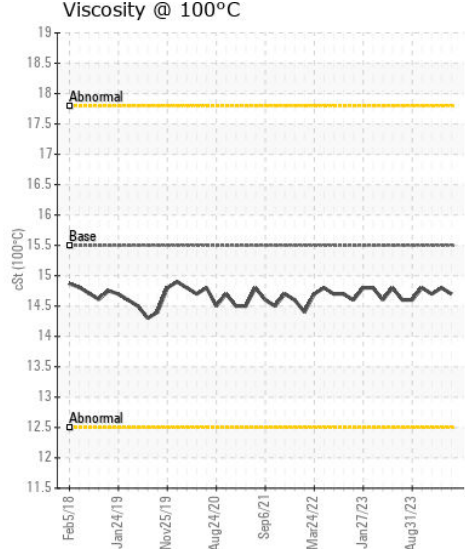
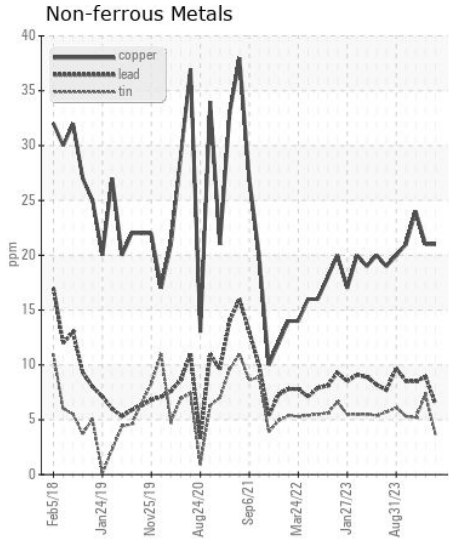
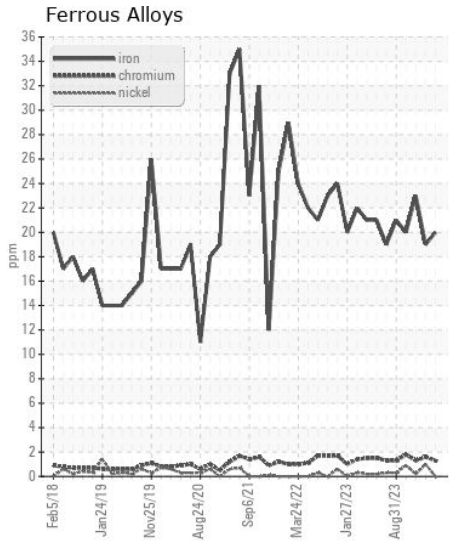
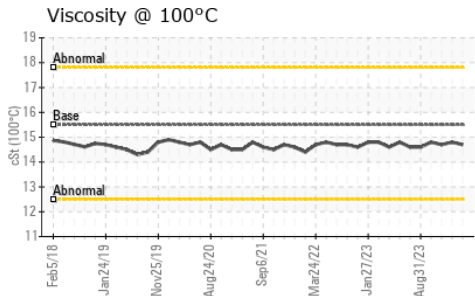
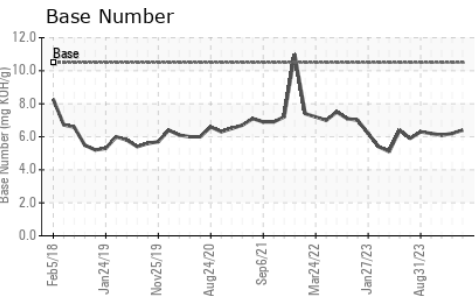
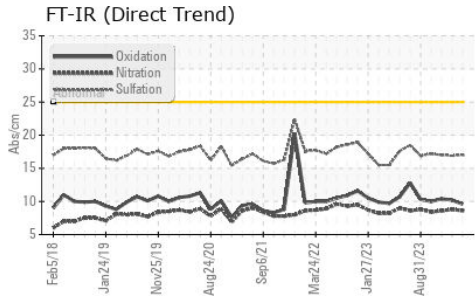
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	3	5
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	2
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	>3	<b>0.5</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	8.8	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.0</b>	16.9	17.0
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	>75	<b>3</b>	3	2
Boron	ppm	ASTM D5185m		<b>32</b>	38	41
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>47</b>	47	52
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>10</b>	12	10
Calcium	ppm	ASTM D5185m		<b>3696</b>	3559	3538
Phosphorus	ppm	ASTM D5185m		<b>6</b>	0	7
Zinc	ppm	ASTM D5185m		<b>0</b>	0	2
Sulfur	ppm	ASTM D5185m		<b>2430</b>	2554	2208
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.6</b>	10.2	10.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>6.4</b>	6.2	6.1
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.7</b>	14.8	14.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0061057  
**Lab Number** : 06234202  
**Unique Number** : 11123036  
**Test Package** : MAR 2  
**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 12 Jul 2024 - Wes Davis

**AMERICAN RIVER TRANSPORTATION CO.**  
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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)