



Machine Id  
**SUL**  
Component  
**Port Genset**  
Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0060670</b>	MWM5005197	MWM065901
Sample Date		Client Info		<b>13 Jun 2024</b>	01 Jun 2020	11 Apr 2007
Machine Age	hrs	Client Info		<b>0</b>	17802	25000
Oil Age	hrs	Client Info		<b>0</b>	0	200
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>ATTENTION</b>	SEVERE	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>35</b>	17	6
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	3	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>12	<b>4</b>	3	4
Lead	ppm	ASTM D5185m	>17	<b>4</b>	▲ 176	3
Copper	ppm	ASTM D5185m	>70	<b>14</b>	▲ 748	2
Tin	ppm	ASTM D5185m	>15	<b>8</b>	▲ 12	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**

Fuel content negligible. There is no indication of any contamination in the oil.

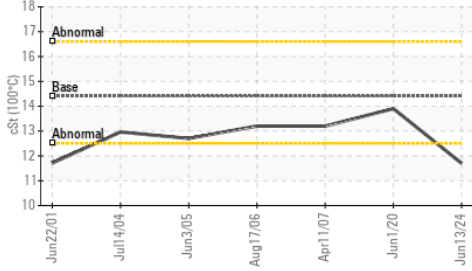
Silicon	ppm	ASTM D5185m	>25	<b>21</b>	10	3
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	27	0
Fuel	%	ASTM D3524	>4.0	<b>0.4</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	▲ 0.10	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.8</b>	7	5.
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.3</b>	21.3	17.
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**

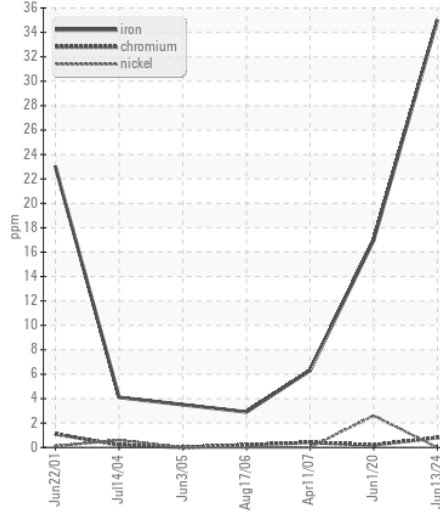
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>9</b>	● 342	6
Boron	ppm	ASTM D5185m	151	<b>303</b>	255	132
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	250	<b>120</b>	119	90
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>748</b>	269	9
Calcium	ppm	ASTM D5185m	2046	<b>1603</b>	1047	2852
Phosphorus	ppm	ASTM D5185m	1043	<b>755</b>	927	1102
Zinc	ppm	ASTM D5185m	943	<b>907</b>	961	1303
Sulfur	ppm	ASTM D5185m	5012	<b>2988</b>	2195	4322
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.3</b>	15.5	11.
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	<b>8.5</b>	11.5	12.11
Visc @ 100°C	cSt	ASTM D445	14.4	● <b>11.7</b>	13.9	13.2

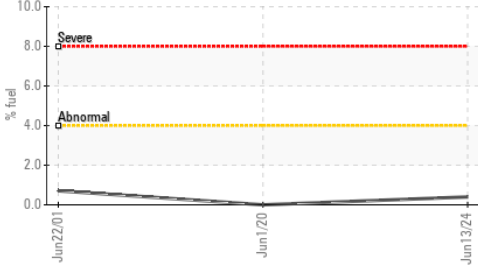
● Viscosity @ 100°C



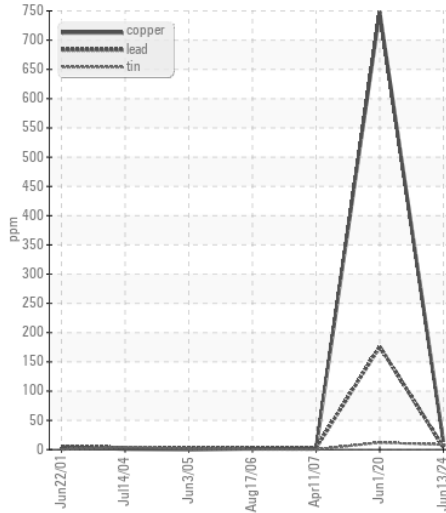
Ferrous Alloys



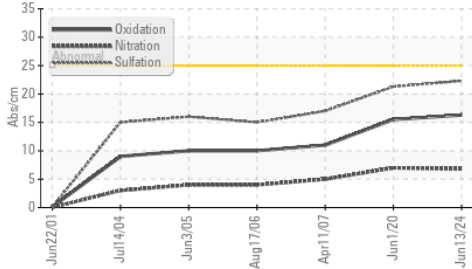
Fuel Dilution



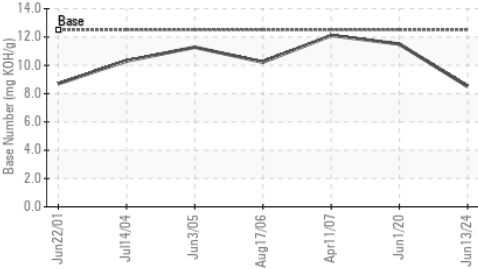
Non-ferrous Metals



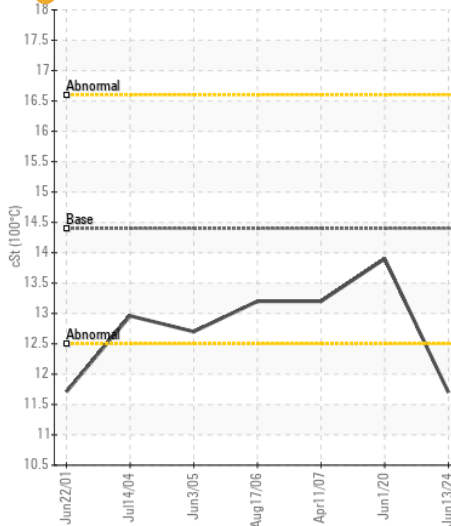
FT-IR (Direct Trend)



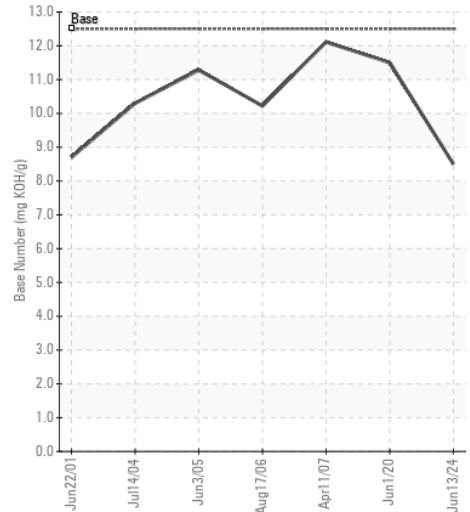
Base Number



● Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0060670 **Received** : 21 Jun 2024  
**Lab Number** : 06217640 **Tested** : 26 Jun 2024  
**Unique Number** : 11090504 **Diagnosed** : 26 Jun 2024 - Jonathan Hester  
**Test Package** : MAR 2 ( Additional Tests: FuelDilution, PercentFuel )

**AMERICAN RIVER TRANSPORTATION CO.**  
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 US 53806  
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 F:

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)