



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

Machine Id  
**LOUISIANA PARADISE**

Component  
**Port Main Engine**

Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (38 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0052248</b>	MW0003427	MW0003492
Sample Date		Client Info		<b>27 Dec 2023</b>	09 Oct 2023	01 Aug 2023
Machine Age	hrs	Client Info		<b>9184</b>	7432	5848
Oil Age	hrs	Client Info		<b>1777</b>	3627	2035
Filter Age	hrs	Client Info		<b>1777</b>	1750	2035
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>6</b>	16	9
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	>3	<b>10</b>	10	11
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>15	<b>1</b>	1	3
Lead	ppm	ASTM D5185m	>18	<b>2</b>	5	2
Copper	ppm	ASTM D5185m	>80	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>14	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

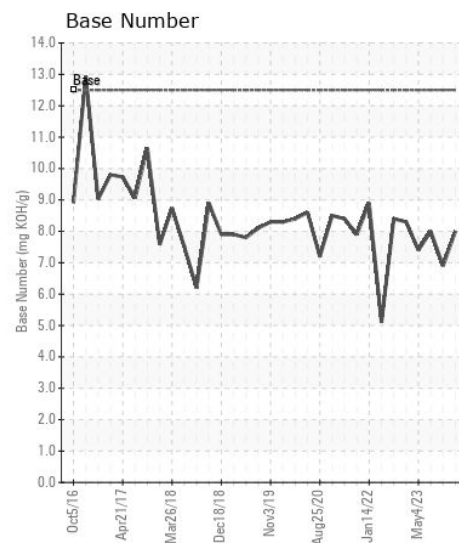
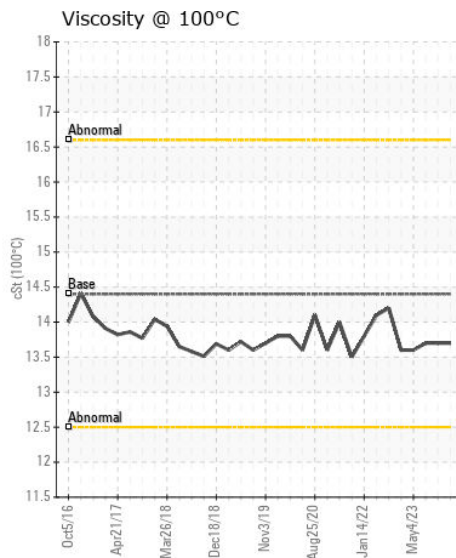
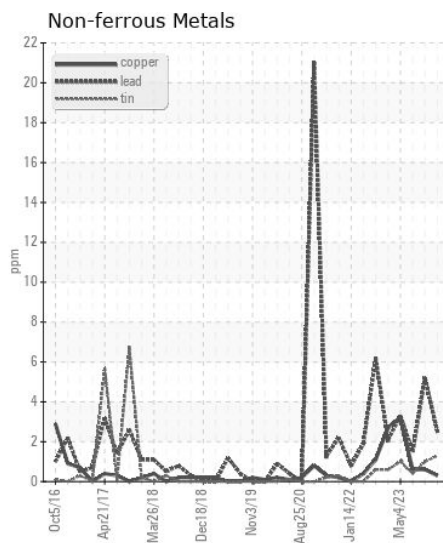
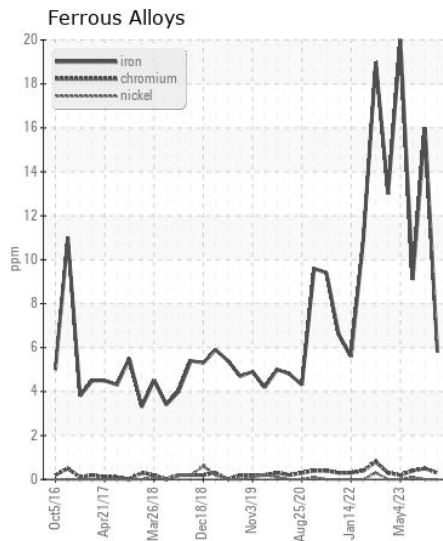
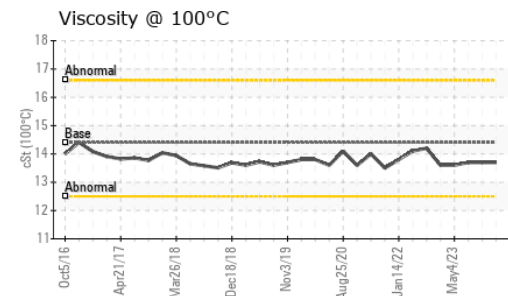
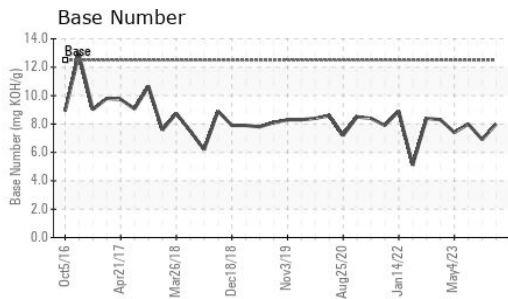
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	5
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>0.2</b>	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.8</b>	8.9	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	19.5	19.2
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>10</b>	10	10
Boron	ppm	ASTM D5185m	151	<b>100</b>	51	78
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>23</b>	23	23
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>554</b>	500	508
Calcium	ppm	ASTM D5185m	2046	<b>1928</b>	1720	1692
Phosphorus	ppm	ASTM D5185m	1043	<b>864</b>	760	757
Zinc	ppm	ASTM D5185m	943	<b>1080</b>	926	929
Sulfur	ppm	ASTM D5185m	5012	<b>3765</b>	3050	3270
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.1</b>	14.6	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	<b>8.0</b>	6.9	8.0
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.7</b>	13.7	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0052248 **Received** : 12 Jan 2024  
**Lab Number** : 06058944 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10830326 **Diagnostician** : Don Baldrige  
**Test Package** : MAR 2

**AMERICAN RIVER TRANSPORTATION CO**  
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 US 70094-2317  
 Contact: KEVIN CHIASSON  
 kevin.chiasson@adm.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)

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F: