



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

Area

**RIVER EAGLE**

Machine Id

**REA**

Component

**Port Reduction Gear**

Fluid

**CHEVRON DELO 400 MULTIGRADE 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0063945</b>	MW0054608	MW0054578
Sample Date		Client Info		<b>18 Jun 2024</b>	15 Mar 2024	21 Nov 2023
Machine Age	hrs	Client Info		<b>5004</b>	3336	1687
Oil Age	hrs	Client Info		<b>1668</b>	1649	1687
Filter Age	hrs	Client Info		<b>1668</b>	1649	1687
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>5</b>	4	6
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>15</b>	16	15
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	2
Copper	ppm	ASTM D5185m	>50	<b>1</b>	2	6
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

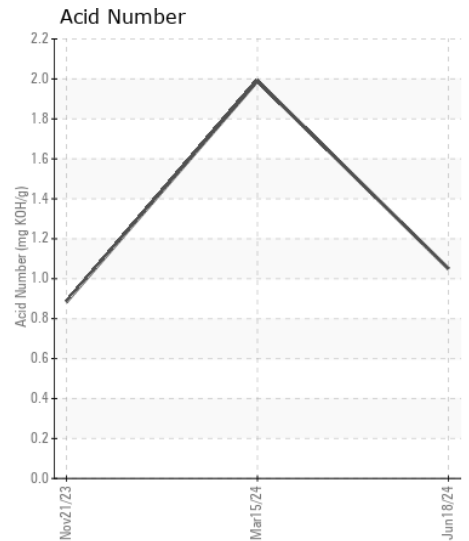
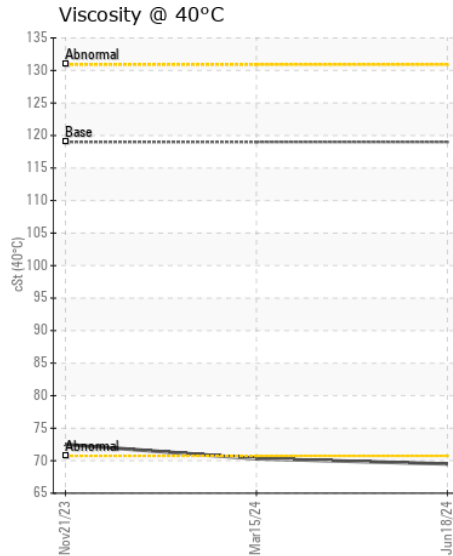
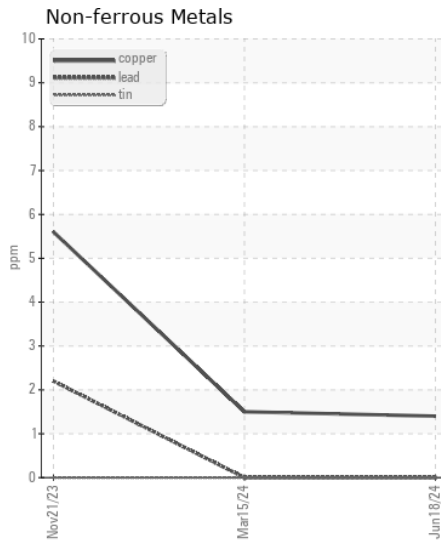
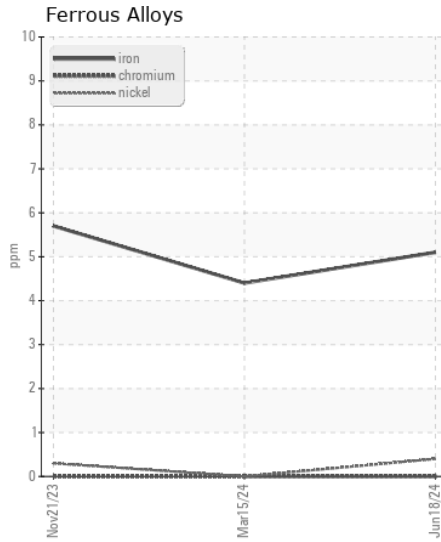
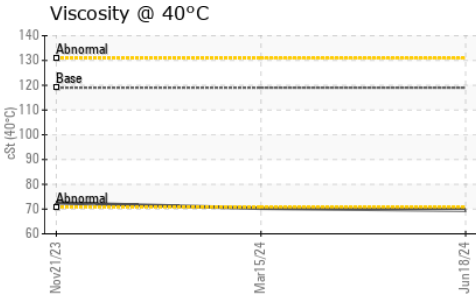
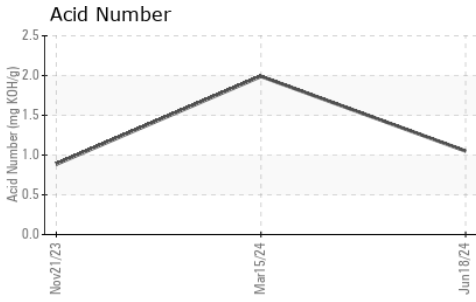
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>5</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>6</b>	3	3
Boron	ppm	ASTM D5185m	151	<b>115</b>	110	117
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>39</b>	29	27
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>756</b>	738	742
Calcium	ppm	ASTM D5185m	2046	<b>1543</b>	1640	1466
Phosphorus	ppm	ASTM D5185m	1043	<b>797</b>	738	839
Zinc	ppm	ASTM D5185m	943	<b>832</b>	815	866
Sulfur	ppm	ASTM D5185m	5012	<b>3999</b>	3702	3030
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.05</b>	1.99	0.885
Visc @ 40°C	cSt	ASTM D445	119	<b>69.5</b>	70.3	72.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0063945  
**Lab Number** : 06219886  
**Unique Number** : 11098083  
**Test Package** : MAR 2

**Received** : 25 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Sean Felton

**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)