



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

Area

**HARVEST PRIDE**

Machine Id

**HPR**

Component

**Starboard Reduction Gear**

Fluid

**CHEVRON DELO 400 MULTIGRADE 15W40 (17 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0063847</b>	MW0054610	MW0054620
Sample Date		Client Info		<b>25 Jun 2024</b>	27 Mar 2024	28 Dec 2023
Machine Age	hrs	Client Info		<b>39434</b>	37709	35894
Oil Age	hrs	Client Info		<b>1725</b>	1815	1691
Filter Age	hrs	Client Info		<b>1725</b>	1815	1691
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
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	>150	<b>3</b>	2	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m		<b>15</b>	17	16
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

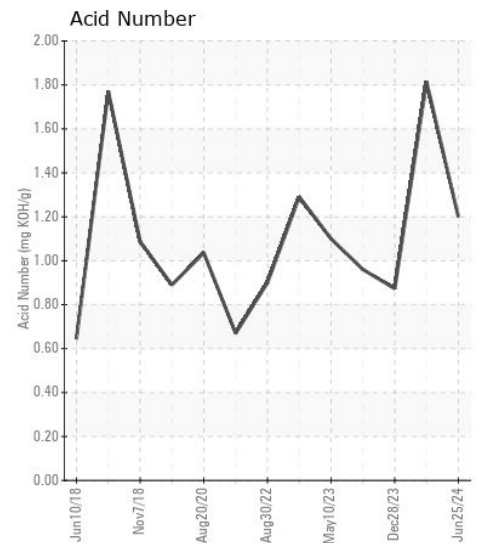
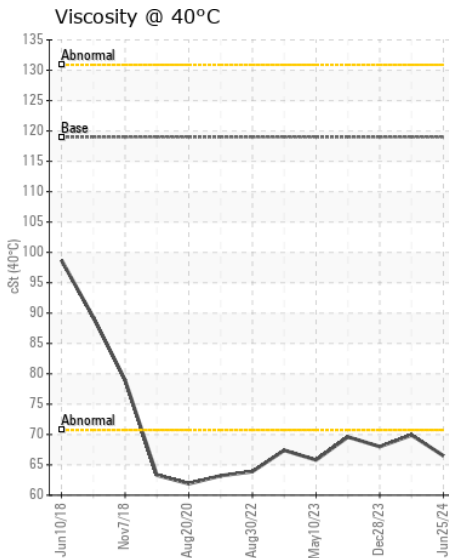
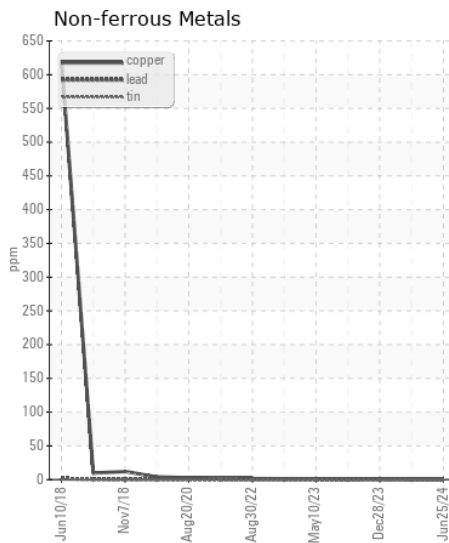
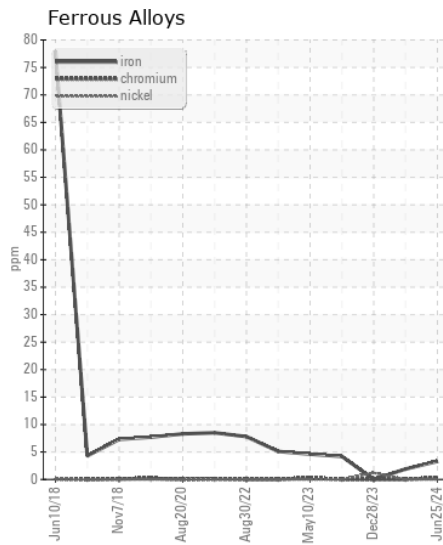
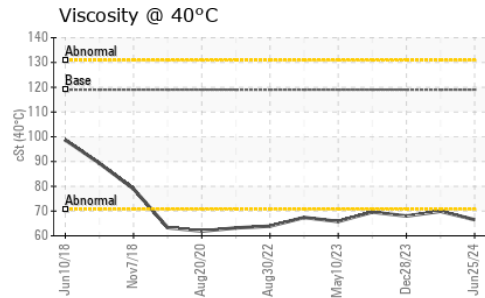
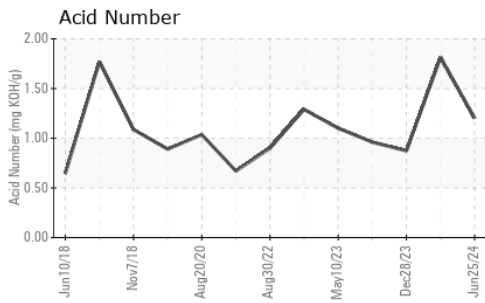
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>3</b>	2	3
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	1
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>	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>1</b>	3	2
Boron	ppm	ASTM D5185m	151	<b>109</b>	109	100
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>34</b>	27	27
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>695</b>	661	757
Calcium	ppm	ASTM D5185m	2046	<b>1450</b>	1506	1497
Phosphorus	ppm	ASTM D5185m	1043	<b>679</b>	668	742
Zinc	ppm	ASTM D5185m	943	<b>789</b>	763	859
Sulfur	ppm	ASTM D5185m	5012	<b>2805</b>	3400	3349
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.20</b>	1.814	0.873
Visc @ 40°C	cSt	ASTM D445	119	<b>66.5</b>	69.9	68.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0063847  
**Lab Number** : 06227674  
**Unique Number** : 11111167  
**Test Package** : MAR 2

**Received** : 03 Jul 2024  
**Tested** : 05 Jul 2024  
**Diagnosed** : 06 Jul 2024 - Don Baldrige

**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)