



Machine Id  
**LOUISIANA BAYOU**  
Component  
**Port Reduction Gear**  
Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (17 GAL)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0057274</b>	MW0042876	MWM722255
Sample Date		Client Info		<b>10 Jun 2024</b>	09 Jun 2023	25 Jan 2022
Machine Age	hrs	Client Info		<b>0</b>	33860	24924
Oil Age	hrs	Client Info		<b>0</b>	0	7600
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>8</b>	4	9
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>13</b>	14	14
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	2	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<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**

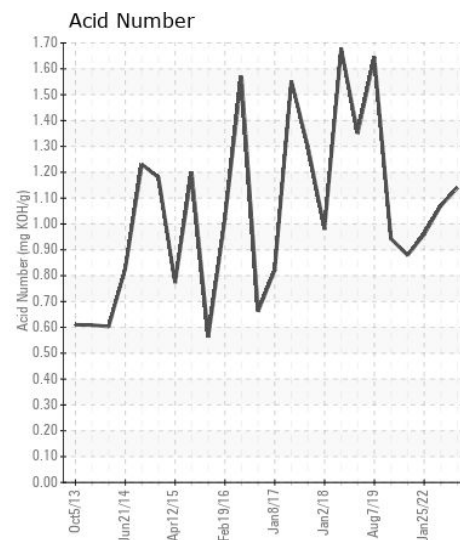
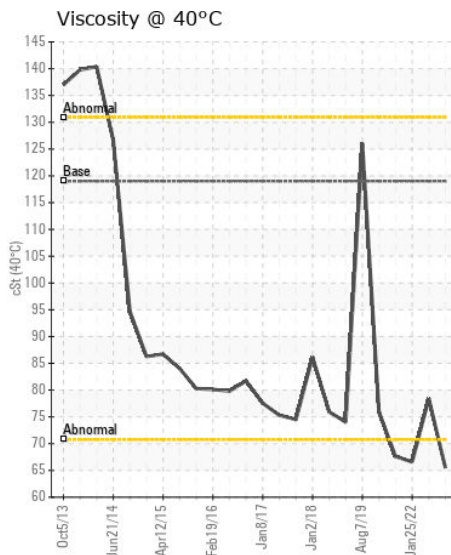
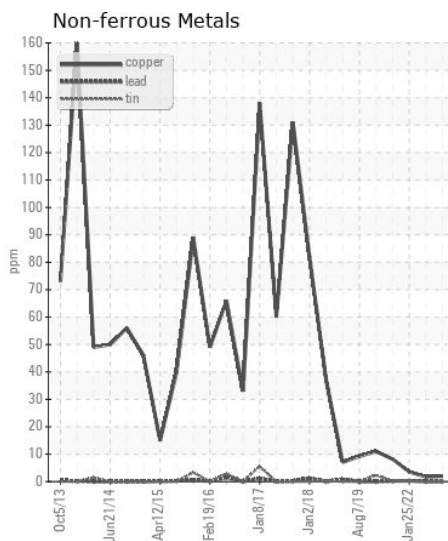
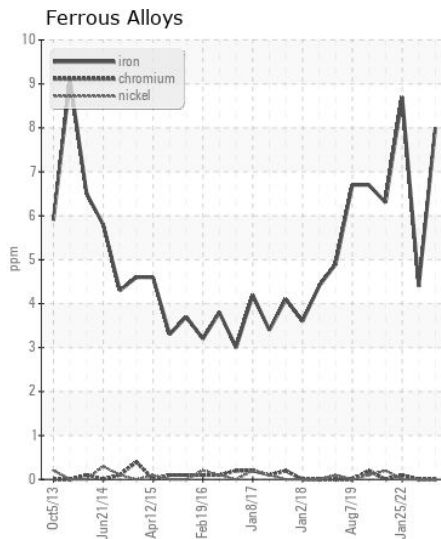
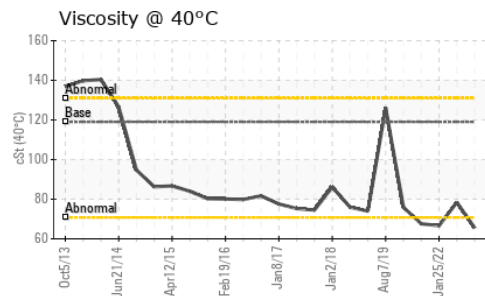
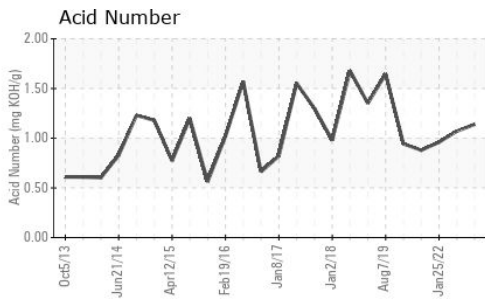
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>6</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	4	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</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>7</b>	<1	5
Boron	ppm	ASTM D5185m	151	<b>121</b>	127	170
Barium	ppm	ASTM D5185m	0.4	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	250	<b>29</b>	31	40
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>680</b>	610	639
Calcium	ppm	ASTM D5185m	2046	<b>1659</b>	1610	1719
Phosphorus	ppm	ASTM D5185m	1043	<b>821</b>	742	818
Zinc	ppm	ASTM D5185m	943	<b>866</b>	874	872
Sulfur	ppm	ASTM D5185m	5012	<b>3853</b>	3643	2966
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.14</b>	1.07	0.96
Visc @ 40°C	cSt	ASTM D445	119	<b>65.5</b>	78.4	66.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : MW0057274

**Lab Number** : 06214882

**Unique Number** : 11087746

**Test Package** : MAR 2

**Received** : 19 Jun 2024

**Tested** : 20 Jun 2024

**Diagnosed** : 21 Jun 2024 - Don Baldrige

**AMERICAN RIVER TRANSPORTATION CO**

8400 RIVER RD, PO BOX 656

WESTWEGO, LA

US 70094-2317

Contact: KEVIN CHIASSON

kevin.chiasson@adm.com

T:

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)