



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

Area  
**CAM**  
Machine Id  
**CAM**  
Component  
**Port Reduction Gear**  
Fluid  
**CHEVRON GEAR COMPOUND EP 320 (180 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0070292</b>	MW0070286	MW0065412
Sample Date		Client Info		<b>01 Jul 2024</b>	25 Jun 2024	01 Apr 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	N/A	Not Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>87</b>	64	69
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	2
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>23</b>	23	21
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

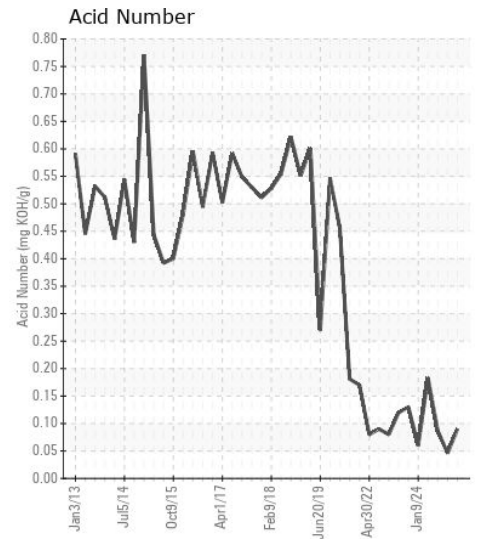
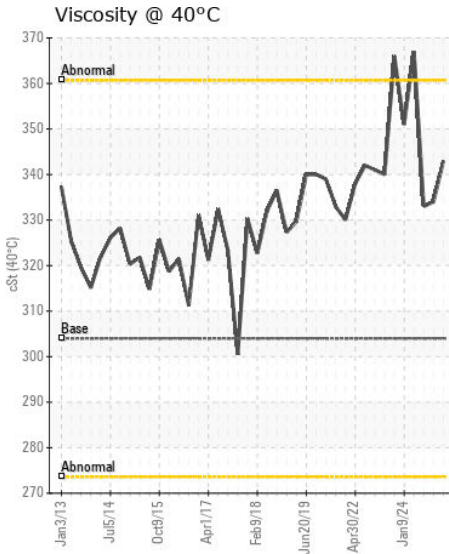
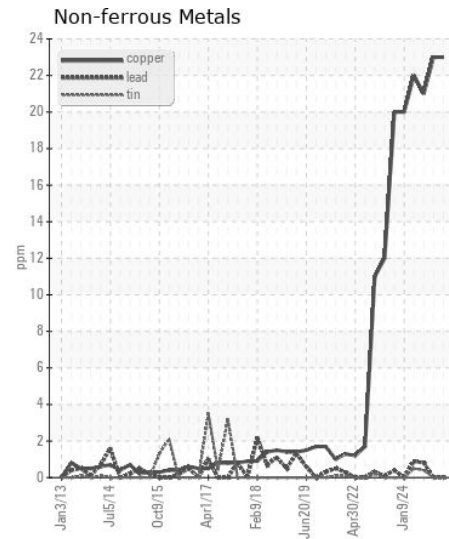
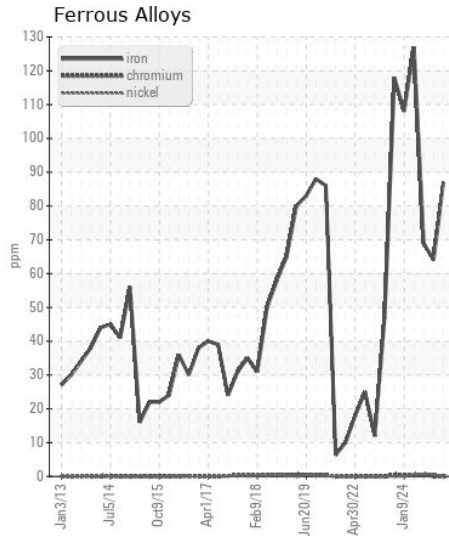
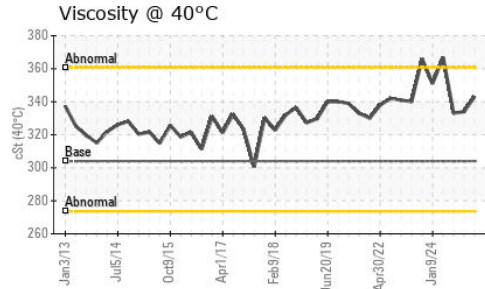
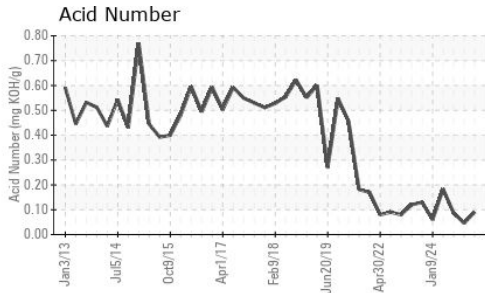
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>19</b>	12	11
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	9	7
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	HAZY
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	0.2%

**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>396</b>	286	226
Boron	ppm	ASTM D5185m		<b>49</b>	32	24
Barium	ppm	ASTM D5185m		<b>4</b>	2	3
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>26</b>	30	25
Calcium	ppm	ASTM D5185m		<b>130</b>	102	95
Phosphorus	ppm	ASTM D5185m		<b>166</b>	162	142
Zinc	ppm	ASTM D5185m		<b>0</b>	4	4
Sulfur	ppm	ASTM D5185m		<b>6966</b>	8173	7453
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.09</b>	0.046	0.087
Visc @ 40°C	cSt	ASTM D445	304	<b>343</b>	334	333



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0070292  
**Lab Number** : 06240519  
**Unique Number** : 11129353  
**Test Package** : MAR 2

**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 20 Jul 2024 - Don Baldrige

**AMERICAN RIVER TRANSPORTATION CO.**  
P.O. BOX 2889  
ST. LOUIS, MO  
US 63111  
Contact: BRIAN GRIEWING  
brian.griewing@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)

T:  
F: (314)481-5278