



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>MARGINAL</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>MW0050962</b>	MW0050951	MW0050950
Sample Date		Client Info		<b>09 Jan 2024</b>	10 Sep 2023	24 Mar 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	35851
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>MARGINAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>108</b>	118	47
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	0
Lead	ppm	ASTM D5185m	>100	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>50	<b>20</b>	20	12
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**

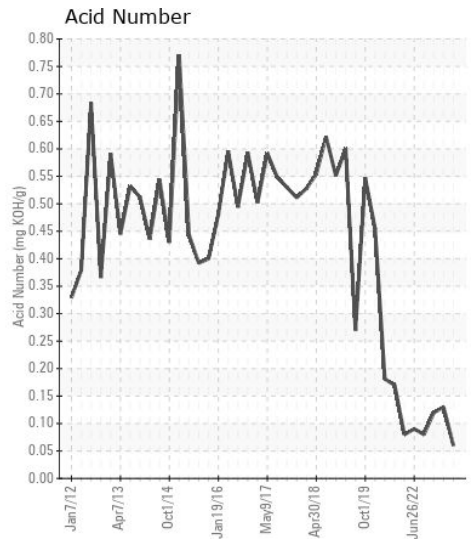
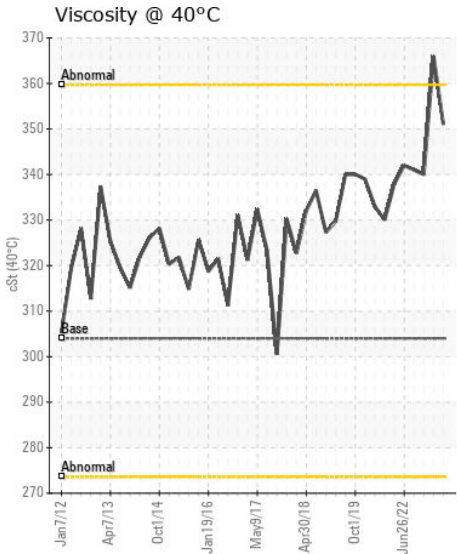
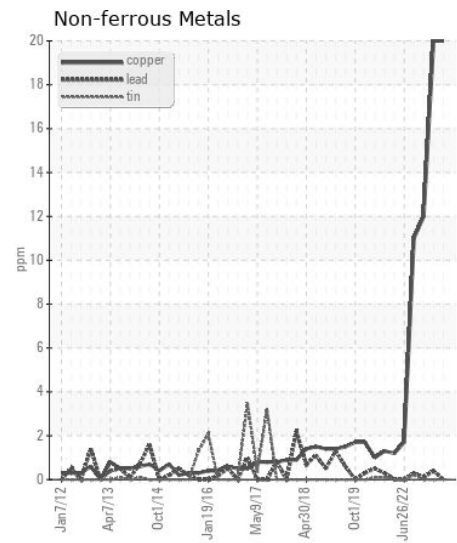
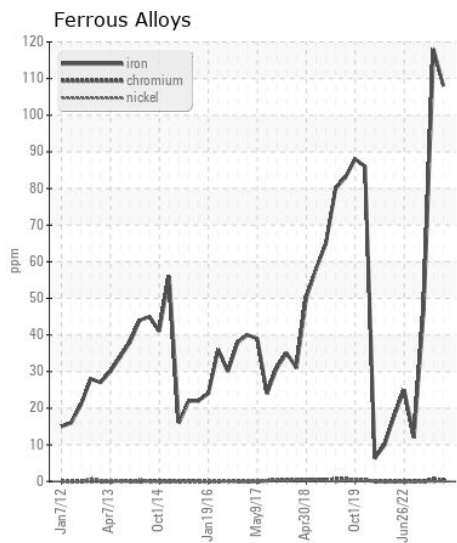
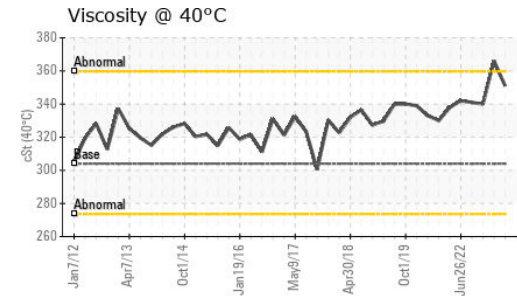
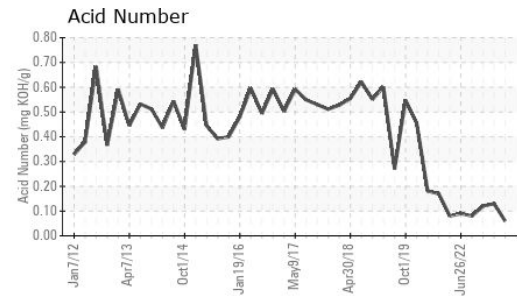
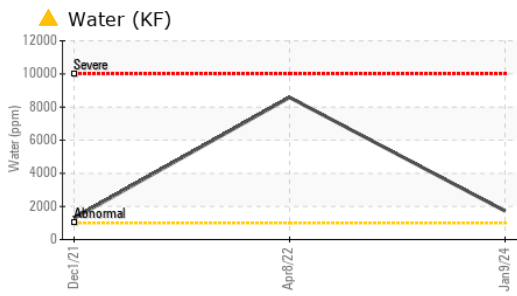
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>20</b>	20	5
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	9	3
Water	%	ASTM D6304	>0.1	<b>▲ 0.172</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	<b>▲ 1720</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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>0.2%</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>290</b>	300	79
Boron	ppm	ASTM D5185m		<b>36</b>	35	4
Barium	ppm	ASTM D5185m		<b>4</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>24</b>	26	11
Calcium	ppm	ASTM D5185m		<b>112</b>	84	18
Phosphorus	ppm	ASTM D5185m		<b>191</b>	182	86
Zinc	ppm	ASTM D5185m		<b>4</b>	4	3
Sulfur	ppm	ASTM D5185m		<b>6665</b>	6969	6654
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.06</b>	0.13	0.12
Visc @ 40°C	cSt	ASTM D445	304	<b>351</b>	366	340



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0050962 **Received** : 10 Jan 2024  
**Lab Number** : 06056868 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822817 **Diagnostician** : Don Baldrige  
**Test Package** : MAR 2 ( Additional Tests: KF )

**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)