



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

Area  
**IAN**  
Machine Id  
**IAN**  
Component  
**Port Reduction Gear**  
Fluid  
**CHEVRON MEROPA 320 (200 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0044064</b>	MW0065480	MW0051017
Sample Date		Client Info		<b>22 Apr 2024</b>	22 Jan 2024	22 Oct 2023
Machine Age	hrs	Client Info		<b>17178</b>	15026	79121
Oil Age	hrs	Client Info		<b>17178</b>	15026	12950
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>None</b>	None	None
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>141</b>	150	137
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>1</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>1</b>	3	<1
Lead	ppm	ASTM D5185m	>100	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185m	>50	<b>19</b>	27	22
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

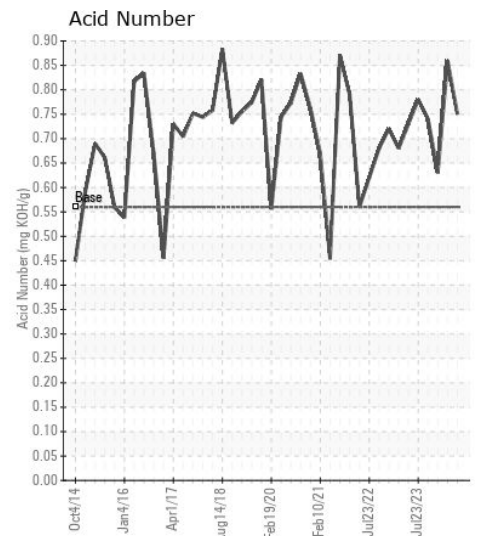
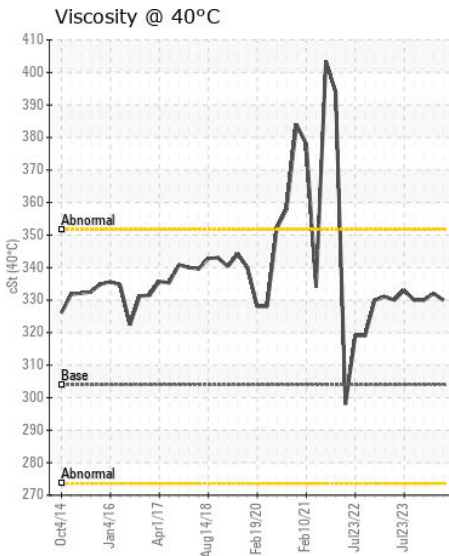
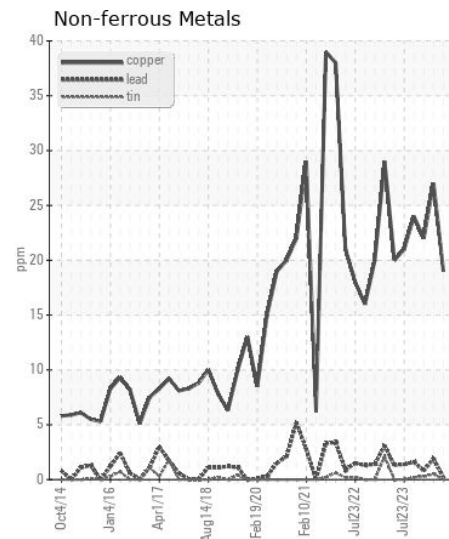
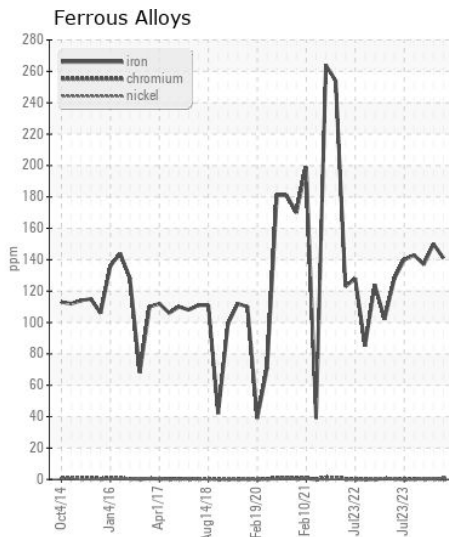
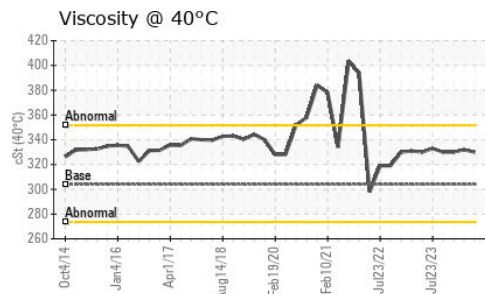
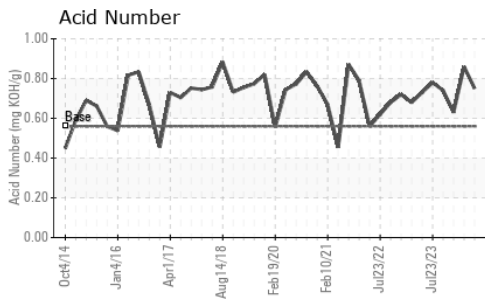
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>3</b>	3	1
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	10	6
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</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>37</b>	44	39
Boron	ppm	ASTM D5185m	20	<b>5</b>	5	4
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>2</b>	1	1
Magnesium	ppm	ASTM D5185m		<b>4</b>	3	3
Calcium	ppm	ASTM D5185m	25	<b>11</b>	20	8
Phosphorus	ppm	ASTM D5185m	235	<b>204</b>	175	196
Zinc	ppm	ASTM D5185m		<b>33</b>	32	21
Sulfur	ppm	ASTM D5185m		<b>6506</b>	5323	5216
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	<b>0.75</b>	0.86	0.63
Visc @ 40°C	cSt	ASTM D445	304	<b>330</b>	332	330



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0044064  
**Lab Number** : 06219889  
**Unique Number** : 11098086  
**Test Package** : MAR 2

**Received** : 25 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Wes Davis

**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)