



Area  
**MEV**  
Machine Id  
Component  
**MEV**  
Port Reduction Gear  
Fluid  
**CHEVRON MEROPA 320 (170 GAL)**

**RECOMMENDATION**

We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0058972</b>	MW0054881	MW0055098
Sample Date		Client Info		<b>11 Jun 2024</b>	12 Apr 2024	12 Jan 2024
Machine Age	hrs	Client Info		<b>0</b>	0	13139
Oil Age	hrs	Client Info		<b>0</b>	15264	13139
Filter Age	hrs	Client Info		<b>0</b>	15264	13139
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	None
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>9</b>	22	23
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	1	2
Copper	ppm	ASTM D5185m	>50	<b>2</b>	2	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

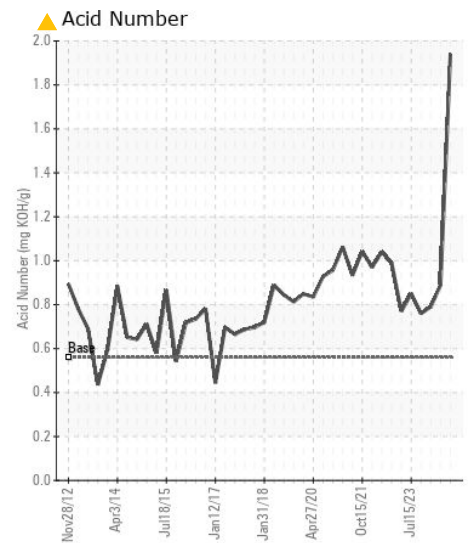
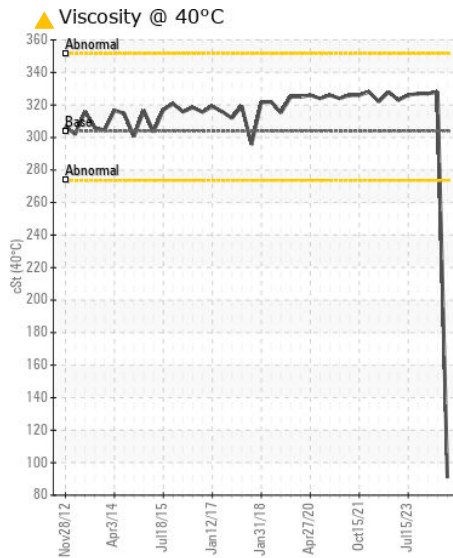
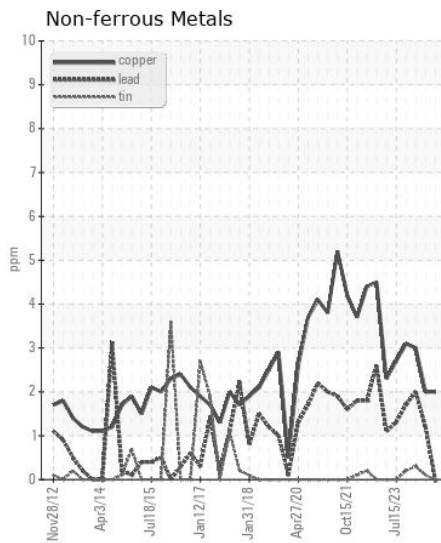
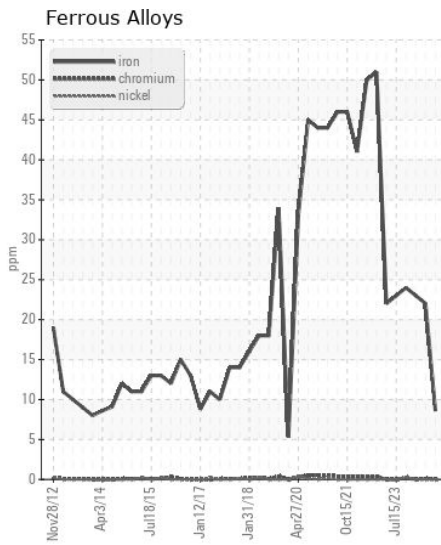
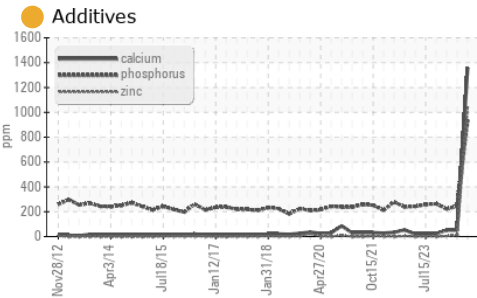
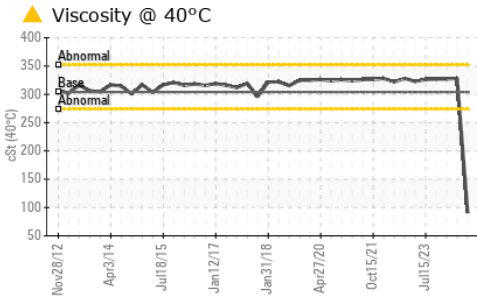
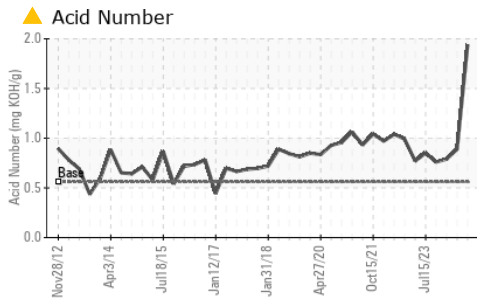
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>2</b>	<1	0
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	3
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 oil viscosity is lower than normal. The AN level is above the recommended limit. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>1</b>	2	0
Boron	ppm	ASTM D5185m	20	<b>81</b>	8	4
Barium	ppm	ASTM D5185m		<b>0</b>	8	7
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>383</b>	0	1
Calcium	ppm	ASTM D5185m	25	<b>1357</b>	51	52
Phosphorus	ppm	ASTM D5185m	235	<b>927</b>	245	222
Zinc	ppm	ASTM D5185m		<b>1031</b>	9	4
Sulfur	ppm	ASTM D5185m		<b>3396</b>	5479	5001
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	<b>1.94</b>	0.89	0.79
Visc @ 40°C	cSt	ASTM D445	304	<b>90.8</b>	328	327



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0058972  
**Lab Number** : 06210311  
**Unique Number** : 11083175  
**Test Package** : MAR 2

**Received** : 14 Jun 2024  
**Tested** : 19 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Angela Borella

**AMERICAN RIVER TRANSPORTATION CO.**  
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 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)

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