



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

Area  
**MEV**  
Machine Id  
**MEV (S/N STEERING)**

Component  
**Steering**  
Fluid  
**CHEVRON RANDO HD 68 (200 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0055099</b>	MW0055092	MW0055087
Sample Date		Client Info		<b>12 Jan 2024</b>	12 Dec 2023	12 Oct 2023
Machine Age	hrs	Client Info		<b>8942</b>	8207	0
Oil Age	hrs	Client Info		<b>8942</b>	8207	6735
Filter Age	hrs	Client Info		<b>0</b>	8207	6735
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>None</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>7</b>	4	18
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>5	<b>0</b>	0	2
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
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**

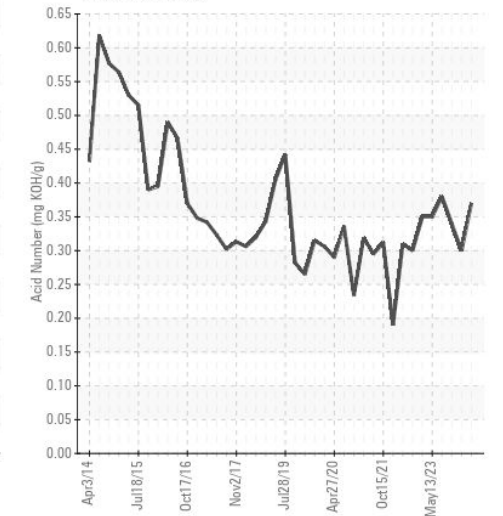
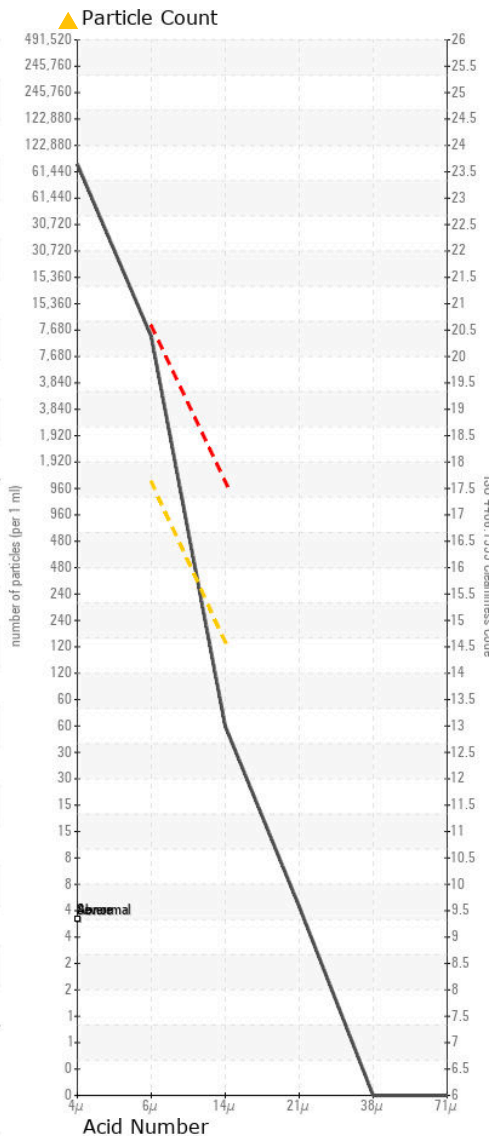
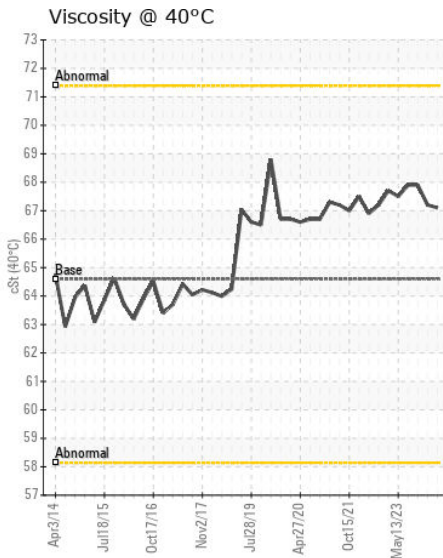
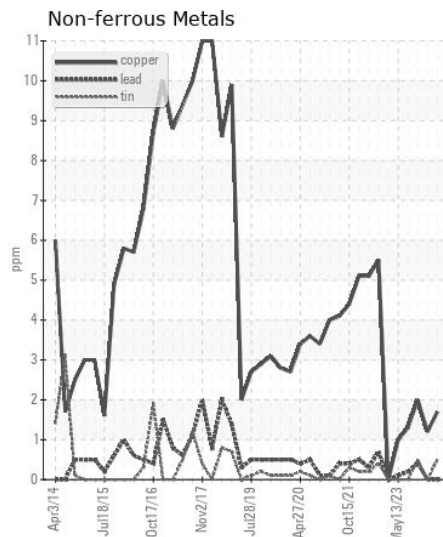
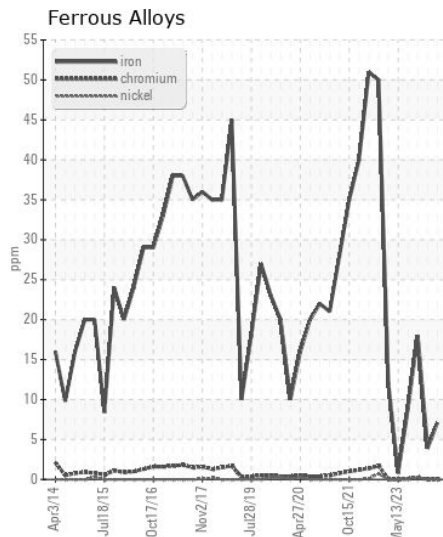
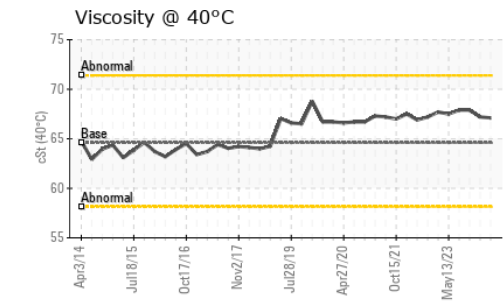
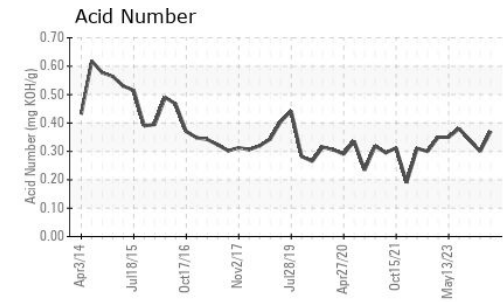
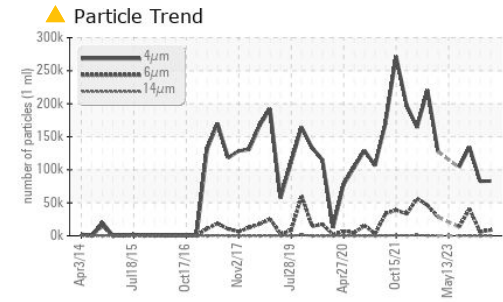
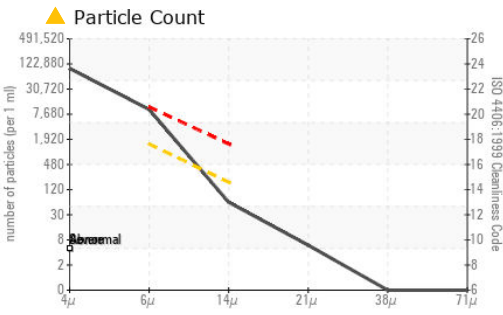
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>82906</b>	82587	134566
Particles >6µm		ASTM D7647	>1300	<b>8680</b>	5866	40385
Particles >14µm		ASTM D7647	>160	<b>53</b>	17	250
Particles >21µm		ASTM D7647	>40	<b>5</b>	5	25
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>-/17/14	<b>24/20/13</b>	24/20/11	24/23/15
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	>0.2	<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>&lt;1</b>	0	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	<1
Calcium	ppm	ASTM D5185m		<b>32</b>	34	39
Phosphorus	ppm	ASTM D5185m		<b>313</b>	336	282
Zinc	ppm	ASTM D5185m		<b>392</b>	426	421
Sulfur	ppm	ASTM D5185m		<b>698</b>	736	810
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.37</b>	0.30	0.34
Visc @ 40°C	cSt	ASTM D445	64.6	<b>67.1</b>	67.2	67.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0055099 **Received** : 08 Feb 2024  
**Lab Number** : 06083575 **Tested** : 09 Feb 2024  
**Unique Number** : 10871020 **Diagnosed** : 10 Feb 2024 - Don Baldrige  
**Test Package** : MAR 2 ( Additional Tests: PrtCount )

**AMERICAN RIVER TRANSPORTATION CO.**  
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Contact: BRIAN GRIEWING  
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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)

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