



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
CDA
Machine Id
CDA
Component
Starboard Reduction Gear
Fluid
CHEVRON MEROPA 320 (150 GAL)

RECOMMENDATION

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

WEAR

The lead level is abnormal. All other component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

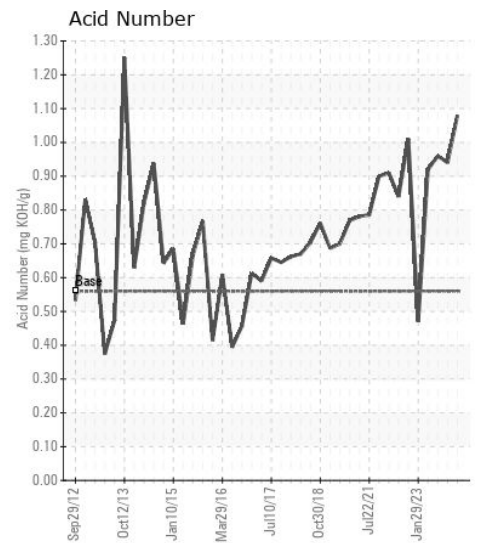
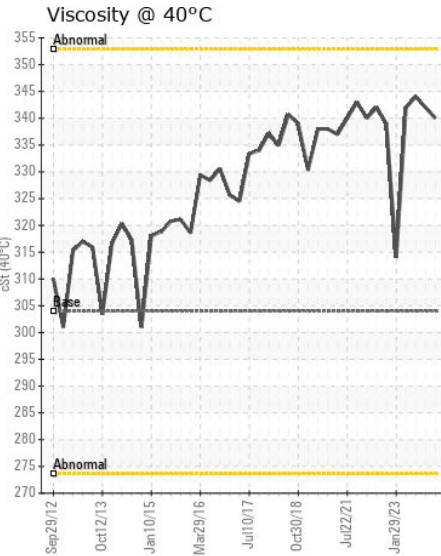
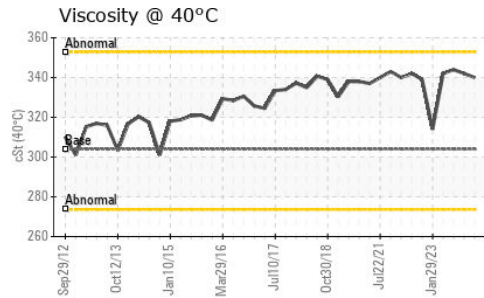
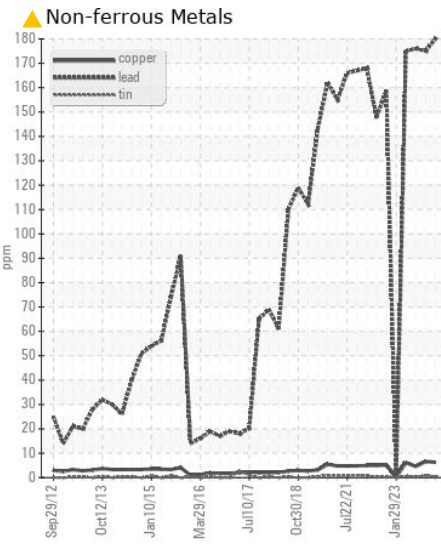
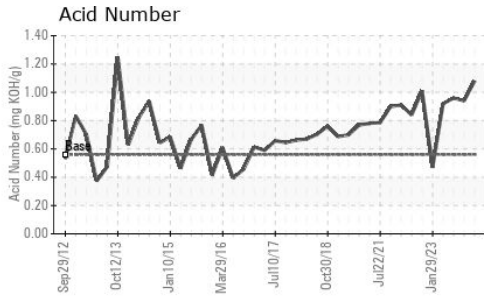
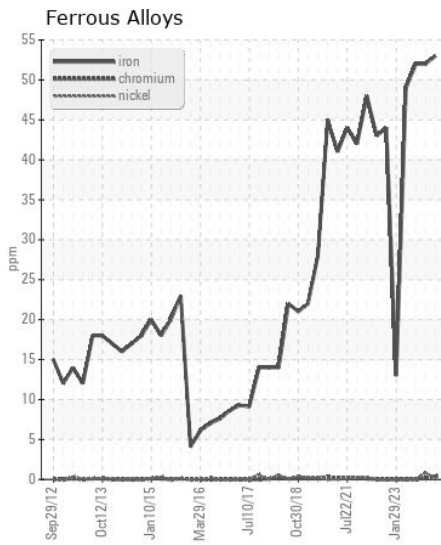
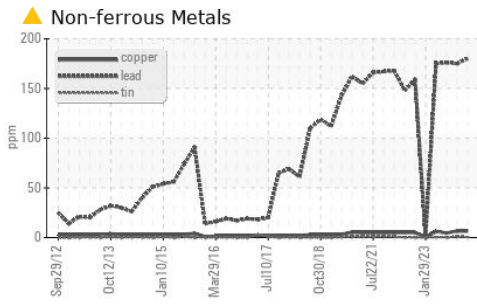
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0050800	MW0050784	MW0054969
Sample Date		Client Info		02 Mar 2024	27 Oct 2023	27 Jul 2023
Machine Age	hrs	Client Info		26548	23944	21786
Oil Age	hrs	Client Info		0	23944	21786
Filter Age	hrs	Client Info		0	23944	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		None	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>150	53	52	52
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>100	▲ 180	▲ 175	▲ 176
Copper	ppm	ASTM D5185m	>50	6	7	5
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	3	2	2
Potassium	ppm	ASTM D5185m	>20	4	4	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m		8	5	6
Boron	ppm	ASTM D5185m	20	6	3	1
Barium	ppm	ASTM D5185m		37	45	18
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1	1	0
Calcium	ppm	ASTM D5185m	25	16	23	23
Phosphorus	ppm	ASTM D5185m	235	277	282	278
Zinc	ppm	ASTM D5185m		4	0	0
Sulfur	ppm	ASTM D5185m		6249	6227	6710
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	1.08	0.94	0.96
Visc @ 40°C	cSt	ASTM D445	304	340	342	344



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0050800
Lab Number : 06106287
Unique Number : 10909784
Test Package : MAR 2

Received : 01 Mar 2024
Tested : 04 Mar 2024
Diagnosed : 05 Mar 2024 - Jonathan Hester

AMERICAN RIVER TRANSPORTATION CO.
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 US 63111
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 F: (314)481-5278

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)