



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
SUL
Component
Port Reduction Gear
Fluid
CHEVRON DELO 400 SYNTHETIC 5W40 (--- 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		MW0060674	MW0031821	MWM636806
Sample Date		Client Info		27 Jun 2024	05 Jun 2023	30 Mar 2021
Machine Age	hrs	Client Info		0	0	26660
Oil Age	hrs	Client Info		0	0	997
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE

WEAR

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

Iron	ppm	ASTM D5185m	>150	67	84	66
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		1	2	<1
Silver	ppm	ASTM D5185m		<1	0	1
Aluminum	ppm	ASTM D5185m	>25	3	2	2
Lead	ppm	ASTM D5185m	>100	1	3	2
Copper	ppm	ASTM D5185m	>50	▲ 210	▲ 162	▲ 369
Tin	ppm	ASTM D5185m	>10	2	3	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

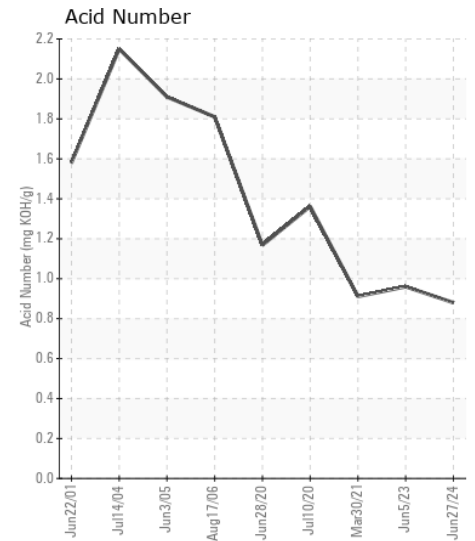
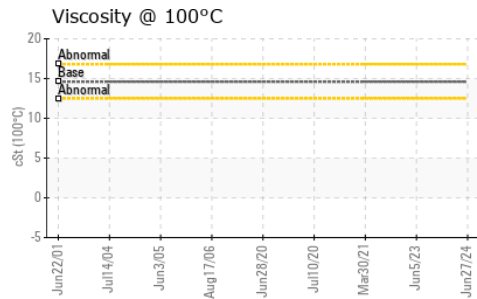
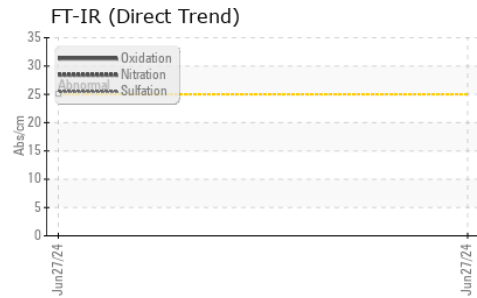
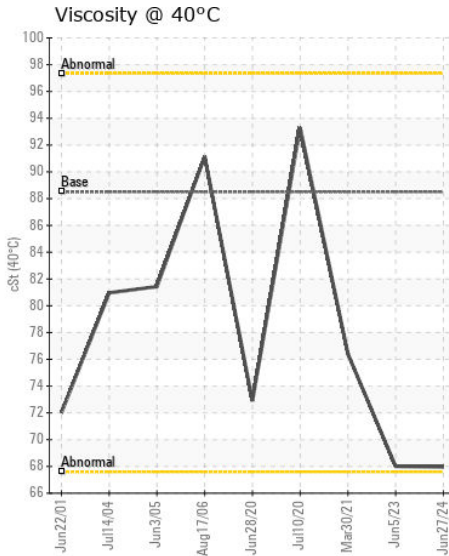
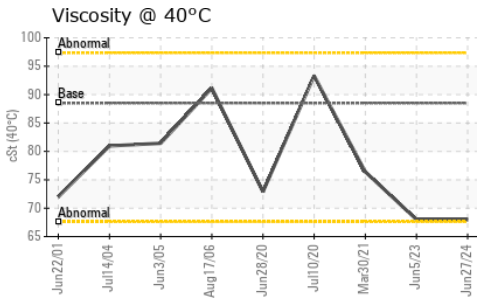
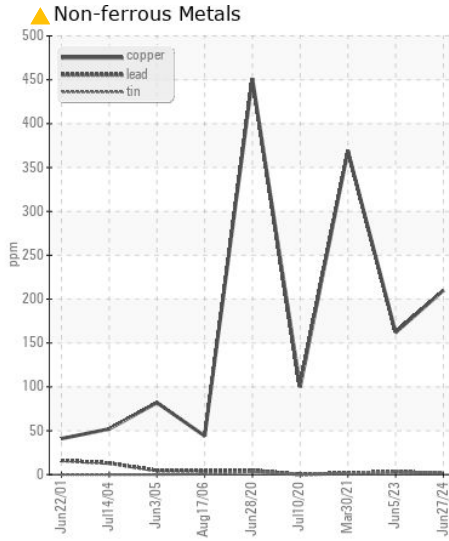
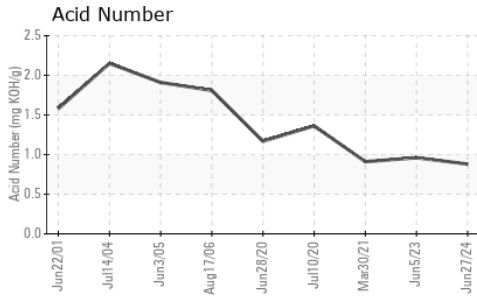
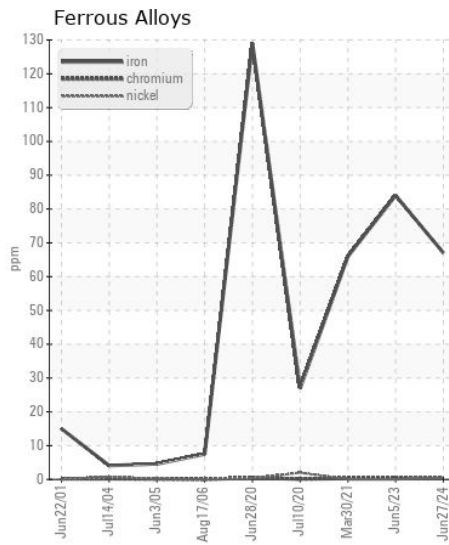
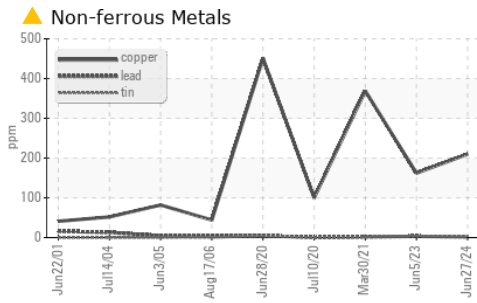
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	6	7	7
Potassium	ppm	ASTM D5185m	>20	7	17	0
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		2	12	0
Boron	ppm	ASTM D5185m		369	353	606
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		127	100	107
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		631	653	534
Calcium	ppm	ASTM D5185m		1551	1635	1680
Phosphorus	ppm	ASTM D5185m	1150	680	794	1003
Zinc	ppm	ASTM D5185m	1270	818	892	1146
Sulfur	ppm	ASTM D5185m	2900	2332	3660	2799
Acid Number (AN)	mg KOH/g	ASTM D8045		0.880	0.96	0.911
Visc @ 40°C	cSt	ASTM D445	88.5	67.96	68.0	76.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0060674 **Received** : 01 Jul 2024
Lab Number : 06225683 **Tested** : 10 Jul 2024
Unique Number : 11103880 **Diagnosed** : 10 Jul 2024 - Jonathan Hester
Test Package : MAR 2 (Additional Tests: FT-IR, KV100)

AMERICAN RIVER TRANSPORTATION CO.
 PO BOX 585
 CASSVILLE, WI
 US 53806

Contact: Dale Grimshaw
 Dale.Grimshaw@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)

T: (608)725-2311

F: