



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
CAM
Machine Id
CAM
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LS (300 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0065410	MW0031806	MW0022665
Sample Date		Client Info		01 Apr 2024	30 Apr 2022	08 Apr 2022
Machine Age	hrs	Client Info		23541	10983	10479
Oil Age	hrs	Client Info		8356	10983	1100
Filter Age	hrs	Client Info		1164	576	1100
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	21	19	22
Chromium	ppm	ASTM D5185m	>8	<1	2	2
Nickel	ppm	ASTM D5185m	>2	0	2	3
Titanium	ppm	ASTM D5185m	>3	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	<1	2	2
Lead	ppm	ASTM D5185m	>18	13	8	8
Copper	ppm	ASTM D5185m	>80	21	22	22
Tin	ppm	ASTM D5185m	>14	9	8	10
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

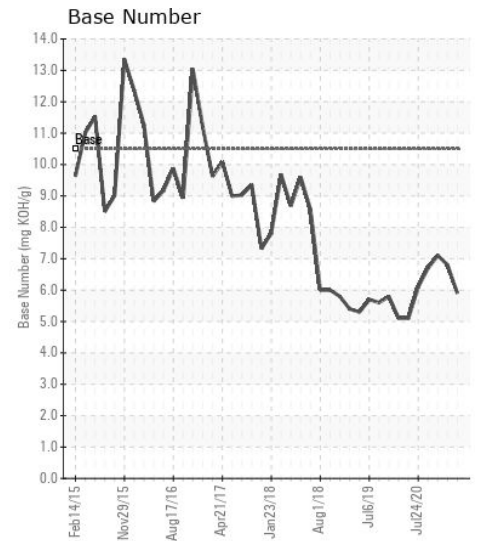
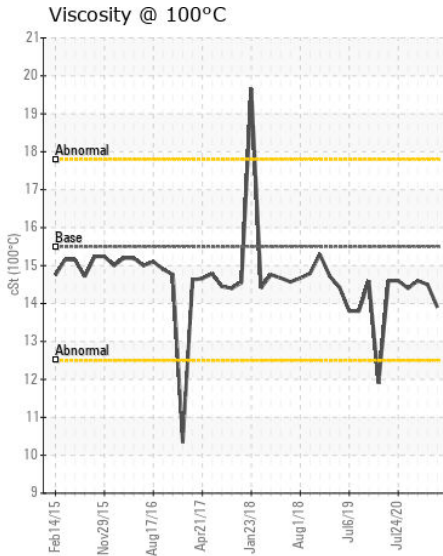
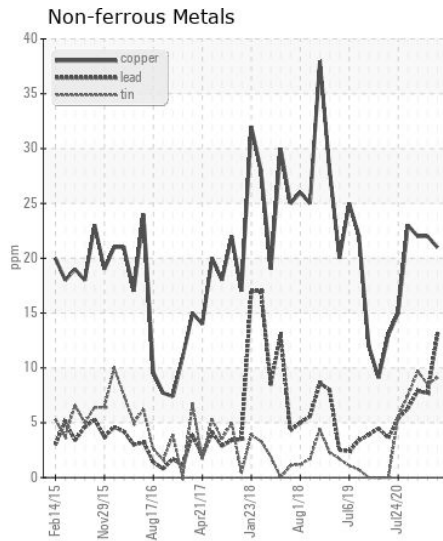
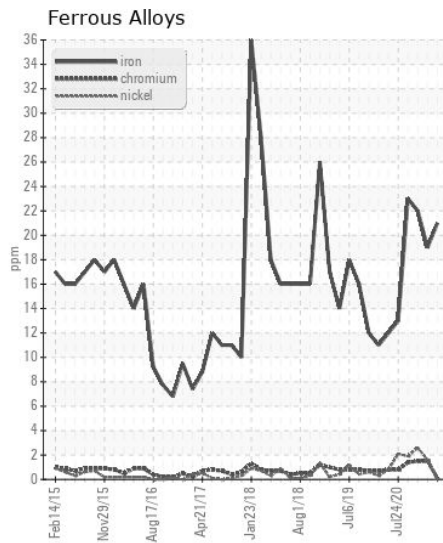
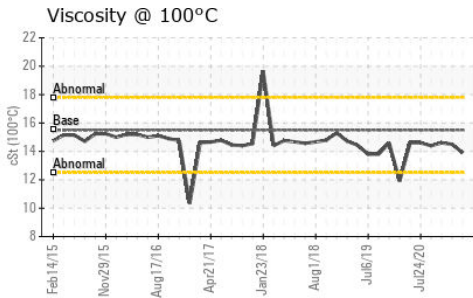
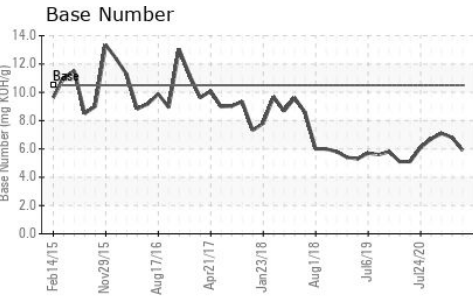
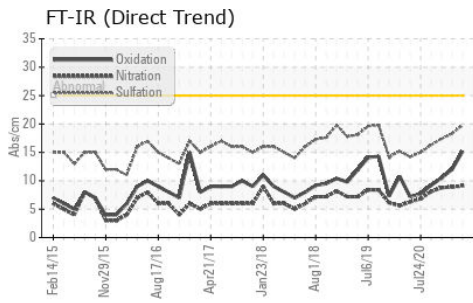
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	2	3	4
Potassium	ppm	ASTM D5185m	>20	<1	1	1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	1.1	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.9	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	18.3	17.4
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

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	<1	2	2
Boron	ppm	ASTM D5185m		32	35	36
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		49	46	49
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		12	14	12
Calcium	ppm	ASTM D5185m		3813	3594	3667
Phosphorus	ppm	ASTM D5185m		20	15	17
Zinc	ppm	ASTM D5185m		6	0	0
Sulfur	ppm	ASTM D5185m		2699	2145	2224
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	12.0	10.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	5.9	6.8	7.1
Visc @ 100°C	cSt	ASTM D445	15.5	13.9	14.5	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0065410
Lab Number : 06158716
Unique Number : 10994139
Test Package : MAR 2

Received : 24 Apr 2024
Tested : 25 Apr 2024
Diagnosed : 25 Apr 2024 - Wes Davis

AMERICAN RIVER TRANSPORTATION CO.
 P.O. BOX 2889
 ST. LOUIS, MO
 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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