



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
PDA
Machine Id
PDA
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LS (250 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0065544	MW0050662	MW0060896
Sample Date		Client Info		24 Feb 2024	24 Dec 2023	29 Oct 2023
Machine Age	hrs	Client Info		43736	42257	40978
Oil Age	hrs	Client Info		0	42257	40978
Filter Age	hrs	Client Info		899	1283	1600
Oil Changed		Client Info		N/A	Not Changd	Not Changd
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	9	8	8
Chromium	ppm	ASTM D5185m	>8	<1	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	3	3	1
Lead	ppm	ASTM D5185m	>18	2	2	3
Copper	ppm	ASTM D5185m	>80	10	6	9
Tin	ppm	ASTM D5185m	>14	2	2	3
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

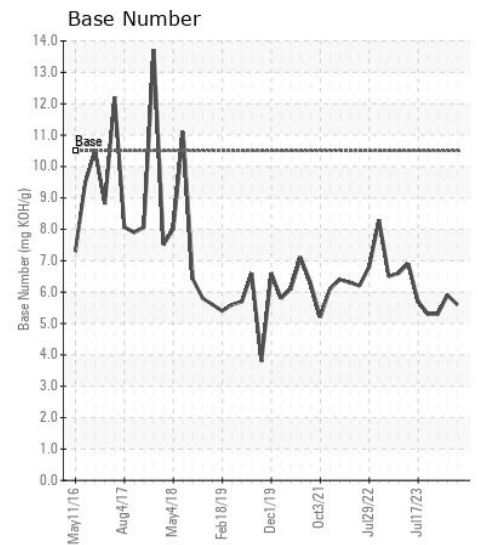
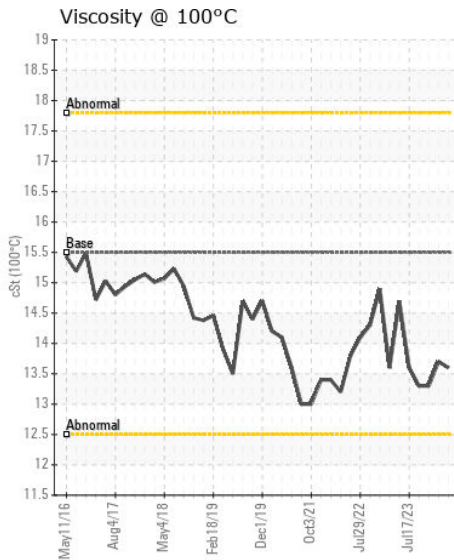
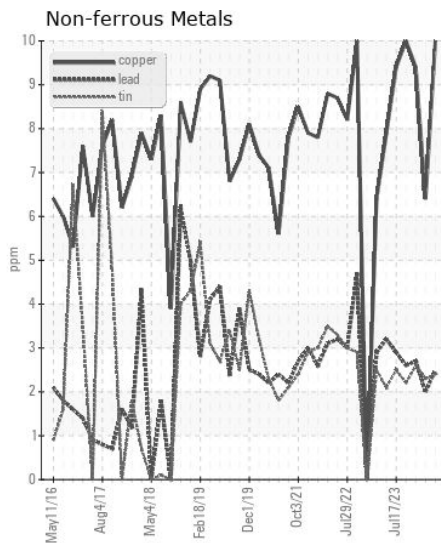
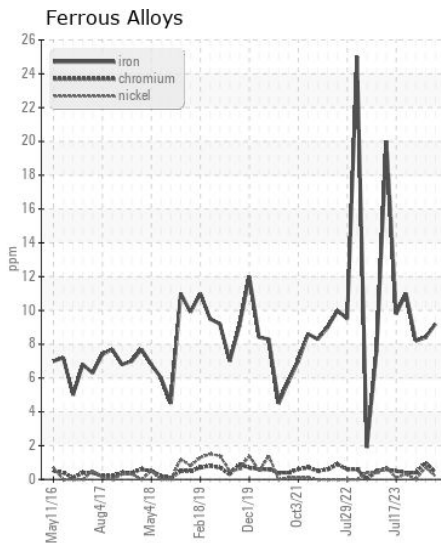
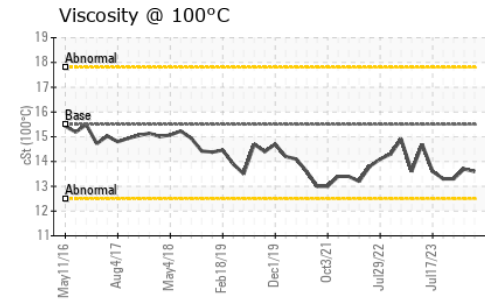
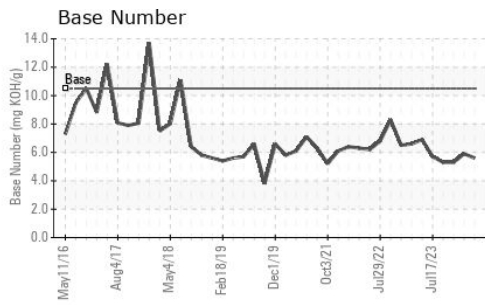
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	2	3	2
Potassium	ppm	ASTM D5185m	>20	3	2	0
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	0.5	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	17.5	19.1
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	0	4	2
Boron	ppm	ASTM D5185m		36	37	35
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		41	39	41
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		8	8	9
Calcium	ppm	ASTM D5185m		3296	3101	3290
Phosphorus	ppm	ASTM D5185m		7	7	2
Zinc	ppm	ASTM D5185m		3	0	0
Sulfur	ppm	ASTM D5185m		2403	2254	2132
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	12.9	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	5.6	5.9	5.3
Visc @ 100°C	cSt	ASTM D445	15.5	13.6	13.7	13.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0065544
Lab Number : 06124565
Unique Number : 10938716
Test Package : MAR 2

Received : 21 Mar 2024
Tested : 21 Mar 2024
Diagnosed : 21 Mar 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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