



Area
GALE C
Machine Id
[GALE C] 002 550006-2
Component
Center Main Engine
Fluid
CHEVRON DELO 710 LE (225 GAL)

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0065710	MW0058521	MW0063261
Sample Date		Client Info		01 Feb 2024	01 Jan 2024	01 Dec 2023
Machine Age	hrs	Client Info		11893	11136	10392
Oil Age	hrs	Client Info		0	0	10392
Filter Age	hrs	Client Info		292	0	324
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	11	10	9
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	2	2	1
Lead	ppm	ASTM D5185m	>18	9	8	5
Copper	ppm	ASTM D5185m	>80	10	11	10
Tin	ppm	ASTM D5185m	>14	6	6	4
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

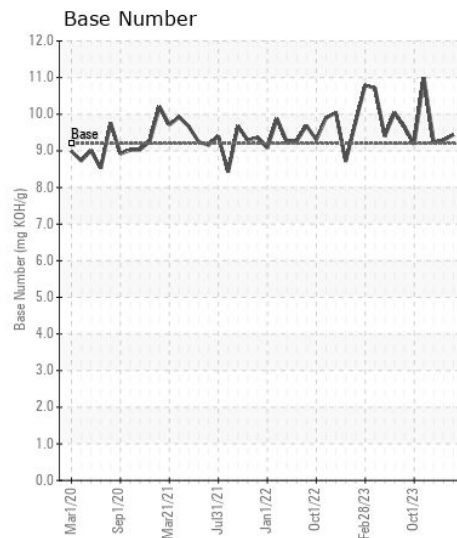
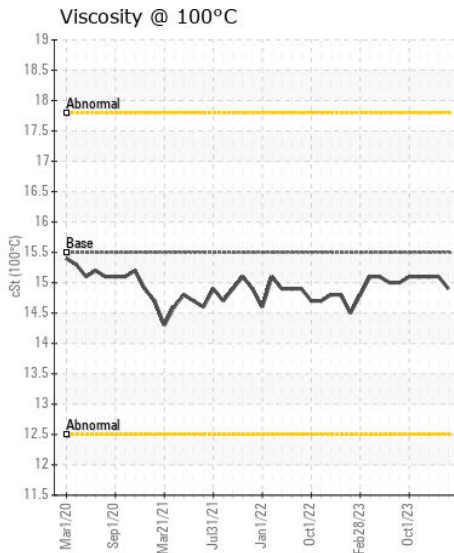
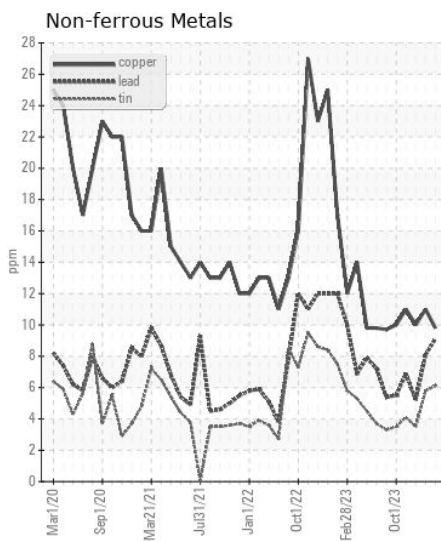
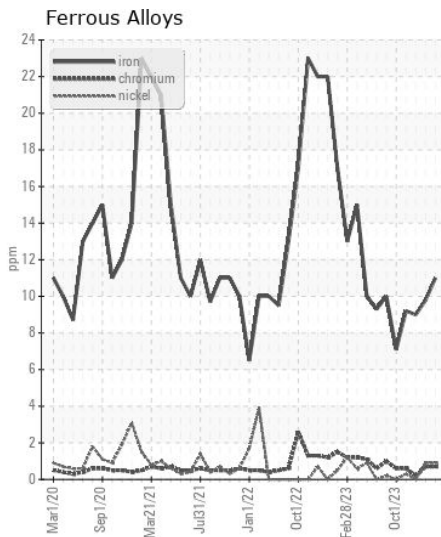
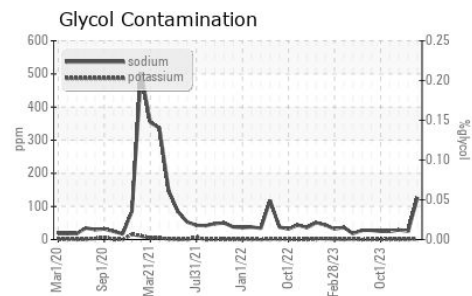
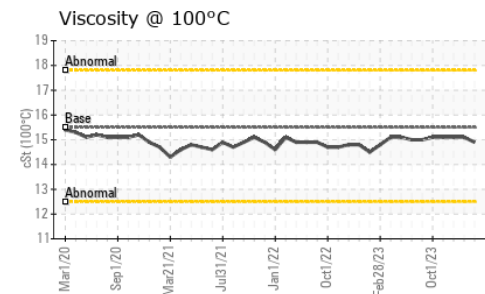
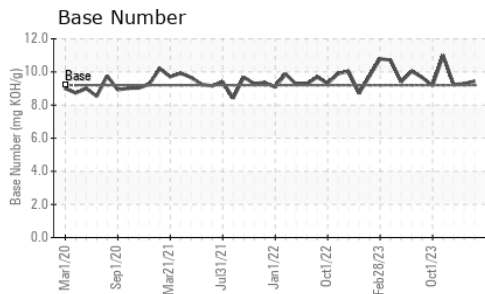
The high sodium (Na) level indicates the possible presence of salt water. Elemental level of sodium (Na) and/or boron (B) indicates a possible cooling water leak.

Silicon	ppm	ASTM D5185m	>20	16	6	5
Potassium	ppm	ASTM D5185m	>20	2	1	1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.7	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.0	16.3	16.5
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	127	25	29
Boron	ppm	ASTM D5185m		59	40	38
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		44	44	42
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		14	14	13
Calcium	ppm	ASTM D5185m		3704	3790	3184
Phosphorus	ppm	ASTM D5185m		5	5	6
Zinc	ppm	ASTM D5185m	10	13	12	0
Sulfur	ppm	ASTM D5185m		2387	2413	2179
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.8	9.5	9.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	9.44	9.29	9.24
Visc @ 100°C	cSt	ASTM D445	15.5	14.9	15.1	15.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0065710 **Received** : 28 Feb 2024
Lab Number : 06103819 **Tested** : 04 Mar 2024
Unique Number : 10902049 **Diagnosed** : 04 Mar 2024 - Jonathan Hester
Test Package : MAR 2 (Additional Tests: Glycol)

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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)