



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GALE C
Machine Id
[GALE C] 001 550006-1
Component
Port Main Engine
Fluid
CHEVRON DELO 710 LE (250 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0065715	MW0058520	MW0063256
Sample Date		Client Info		01 Feb 2024	01 Jan 2024	01 Dec 2023
Machine Age	hrs	Client Info		11911	11136	10405
Oil Age	hrs	Client Info		0	0	10405
Filter Age	hrs	Client Info		207	0	324
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	12	12	12
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	8	9	5
Copper	ppm	ASTM D5185m	>80	13	16	11
Tin	ppm	ASTM D5185m	>14	6	7	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

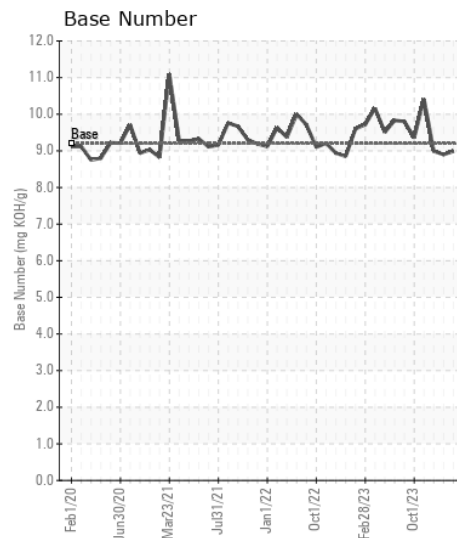
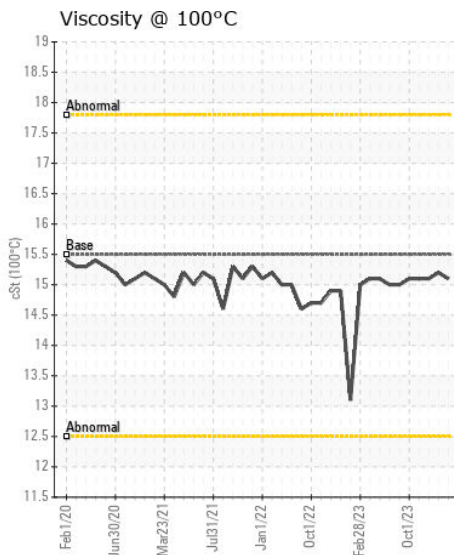
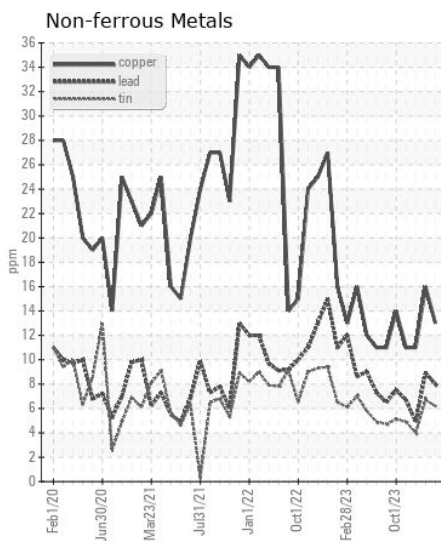
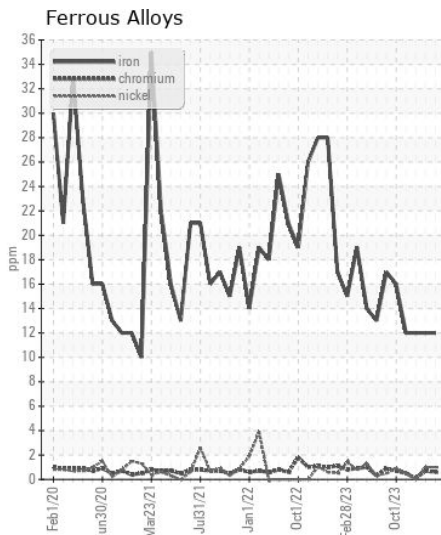
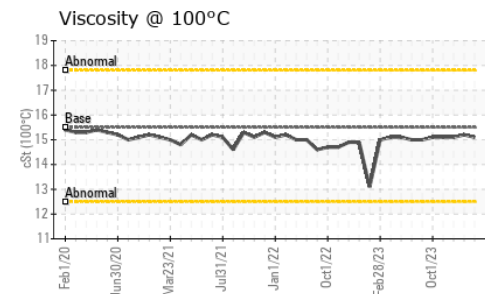
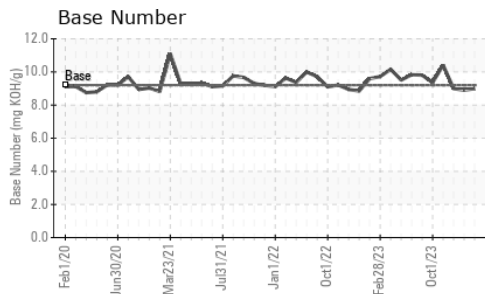
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	6	8	10
Potassium	ppm	ASTM D5185m	>20	1	1	2
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	0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.1	16.4	16.7
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	15	31	57
Boron	ppm	ASTM D5185m		39	42	44
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		3758	3800	3152
Phosphorus	ppm	ASTM D5185m		6	6	6
Zinc	ppm	ASTM D5185m	10	12	12	0
Sulfur	ppm	ASTM D5185m		2416	2395	2184
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.8	10.0	9.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	8.99	8.90	8.99
Visc @ 100°C	cSt	ASTM D445	15.5	15.1	15.2	15.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : MW0065715

Lab Number : 06103818

Unique Number : 10902048

Test Package : MAR 2

Received : 28 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 29 Feb 2024 - Wes Davis

INGRAM BARGE

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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)