



Machine Id
EIC
Component
Port Main Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (--- 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		MW05745150	MW05718178	MW05673988
Sample Date		Client Info		19 Jan 2023	14 Dec 2022	23 Oct 2022
Machine Age	hrs	Client Info		19106	18364	17557
Oil Age	hrs	Client Info		642	807	801
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	3	8	8
Chromium	ppm	ASTM D5185m	>8	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>3	1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>15	0	2	1
Lead	ppm	ASTM D5185m	>18	0	24	10
Copper	ppm	ASTM D5185m	>80	1	3	1
Tin	ppm	ASTM D5185m	>14	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

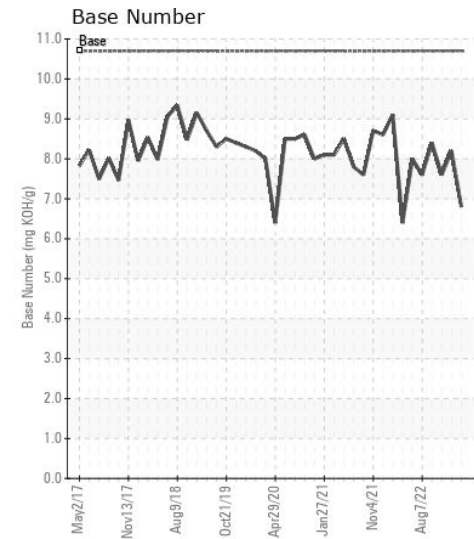
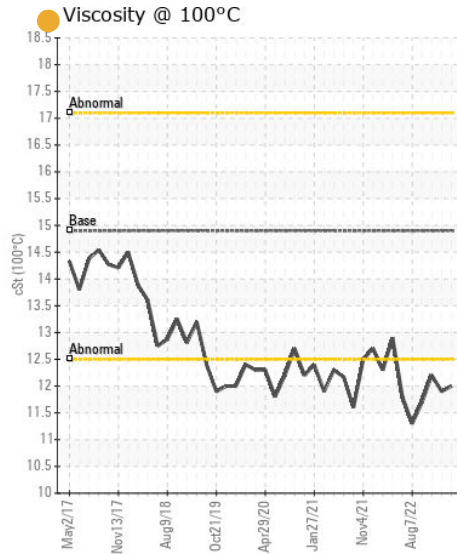
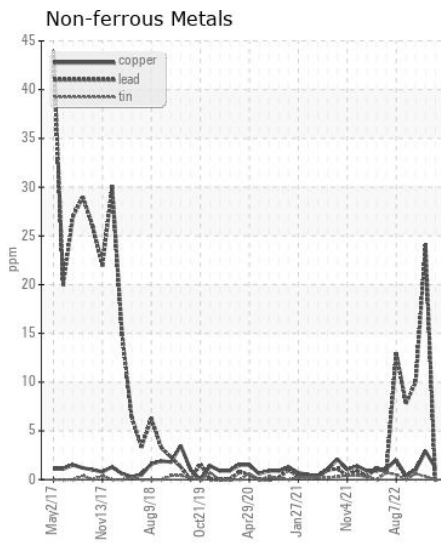
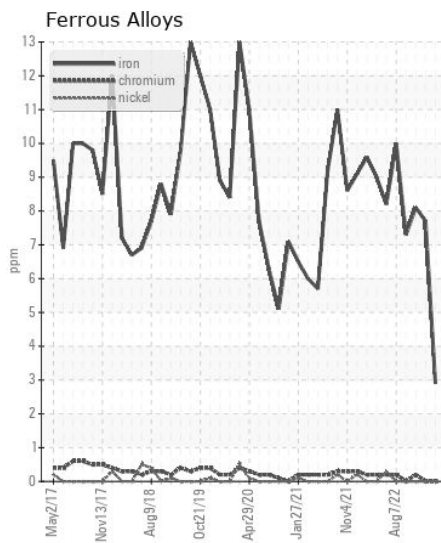
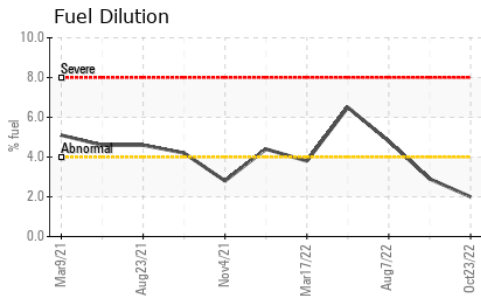
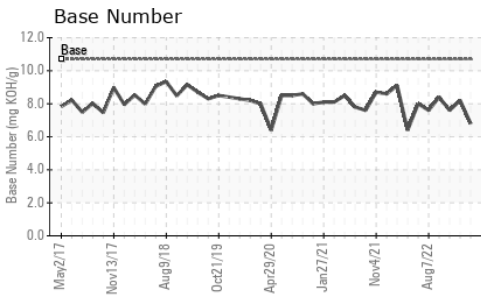
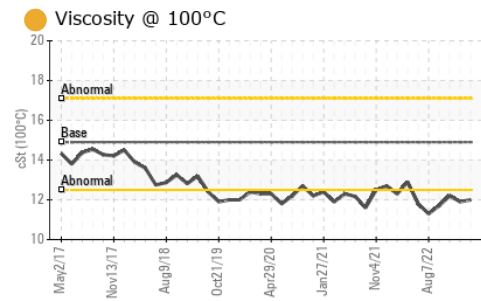
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	3	4
Potassium	ppm	ASTM D5185m	>20	1	1	0
Fuel	%	ASTM D3524	>4.0	<1.0	<1.0	▲ 2.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.2	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.3	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	25.9	24.8
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>75	<1	0	<1
Boron	ppm	ASTM D5185m		307	314	349
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		79	109	88
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		426	499	428
Calcium	ppm	ASTM D5185m		1307	1485	1467
Phosphorus	ppm	ASTM D5185m	760	780	750	873
Zinc	ppm	ASTM D5185m	830	936	909	1067
Sulfur	ppm	ASTM D5185m	2770	2638	3115	3459
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.5	22.6	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	6.8	8.2	7.6
Visc @ 100°C	cSt	ASTM D445	14.9	● 12.0	● 11.9	● 12.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW05745150 **Received** : 20 Jan 2023
Lab Number : 05745150 **Tested** : 24 Jan 2023
Unique Number : 10299749 **Diagnosed** : 24 Jan 2023 - Jonathan Hester
Test Package : MAR 2 (Additional Tests: FUELDILUTION)

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Certificate L2367
 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)