



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MRC
Component
Port Main Engine
Fluid
CHEVRON DELO 400 XLE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW05843065	MW05823778	MW05765706
Sample Date		Client Info		09 May 2023	18 Apr 2023	12 Feb 2023
Machine Age	hrs	Client Info		6841	6280	5674
Oil Age	hrs	Client Info		561	606	2594
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				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	6	26	22
Chromium	ppm	ASTM D5185m	>8	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	3	3
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	5	0	2
Lead	ppm	ASTM D5185m	>18	10	▲ 74	▲ 63
Copper	ppm	ASTM D5185m	>80	2	18	19
Tin	ppm	ASTM D5185m	>14	0	1	2
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

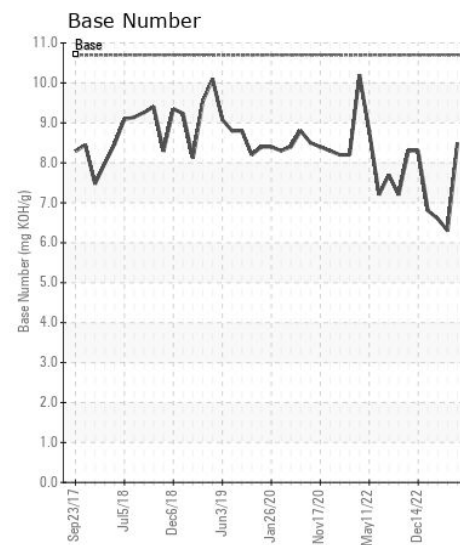
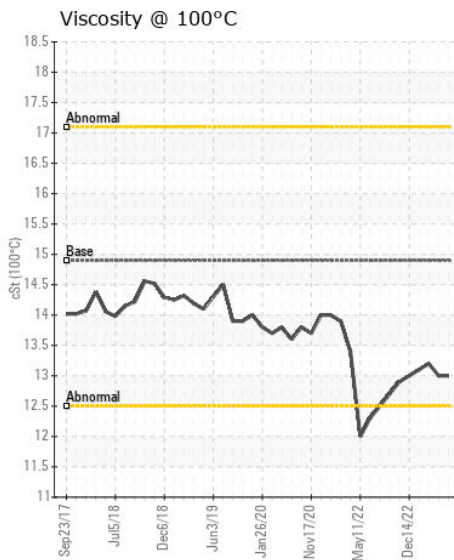
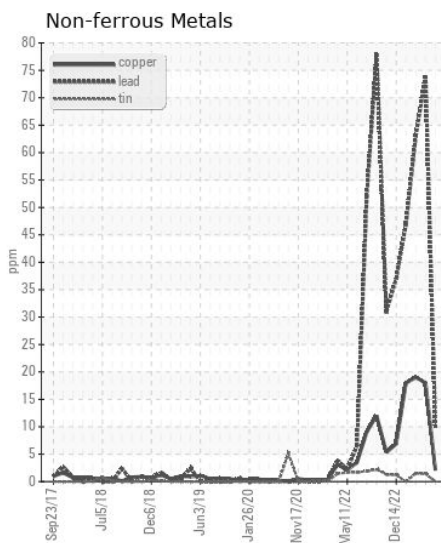
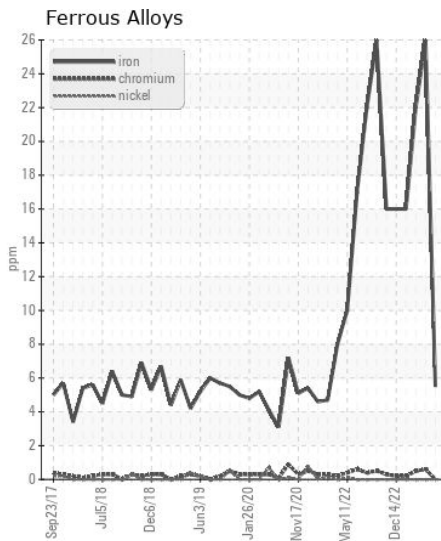
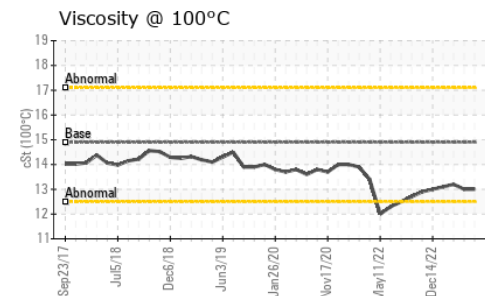
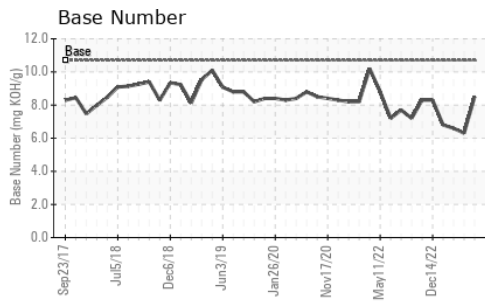
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	5	4
Potassium	ppm	ASTM D5185m	>20	1	2	<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		0.3	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	7.0	10.0	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	25.4	25.3
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	1	2
Boron	ppm	ASTM D5185m		272	149	167
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		105	100	98
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		585	580	579
Calcium	ppm	ASTM D5185m		1698	1554	1567
Phosphorus	ppm	ASTM D5185m	760	783	696	691
Zinc	ppm	ASTM D5185m	830	952	878	842
Sulfur	ppm	ASTM D5185m	2770	3013	2663	3086
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	21.3	21.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	8.5	6.3	6.6
Visc @ 100°C	cSt	ASTM D445	14.9	13.0	13.0	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW05843065
Lab Number : 05843065
Unique Number : 10467172
Test Package : MAR 2
Received : 10 May 2023
Tested : 12 May 2023
Diagnosed : 12 May 2023 - Wes Davis

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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)