



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MV WAYNE C
Component
Port Genset
Fluid
CHEVRON DELO 400 MULTIGRADE 15W40 (3 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0042022	MW0062738	MW0045776
Sample Date		Client Info		07 May 2024	03 Nov 2023	14 May 2023
Machine Age	hrs	Client Info		19327	18608	18269
Oil Age	hrs	Client Info		750	500	0
Filter Age	hrs	Client Info		750	500	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>50	▲ 148	71	66
Chromium	ppm	ASTM D5185m	>4	2	1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	5	4	6
Lead	ppm	ASTM D5185m	>17	4	7	17
Copper	ppm	ASTM D5185m	>70	7	9	13
Tin	ppm	ASTM D5185m	>15	1	1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

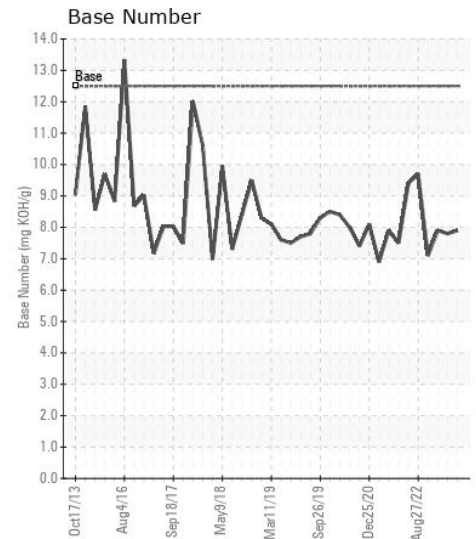
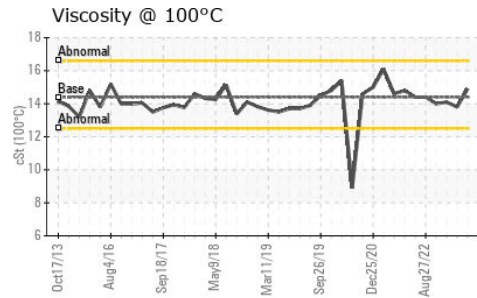
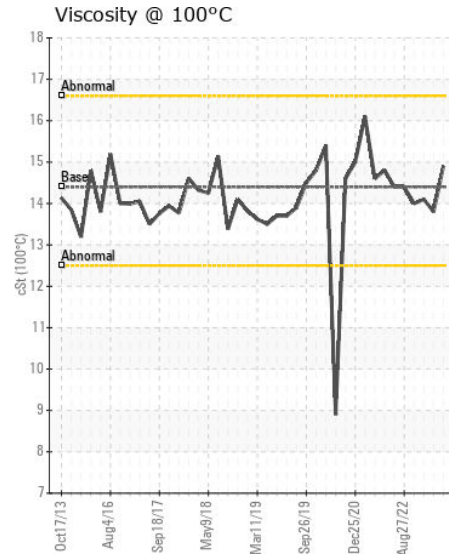
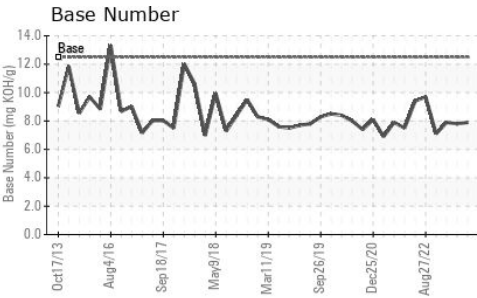
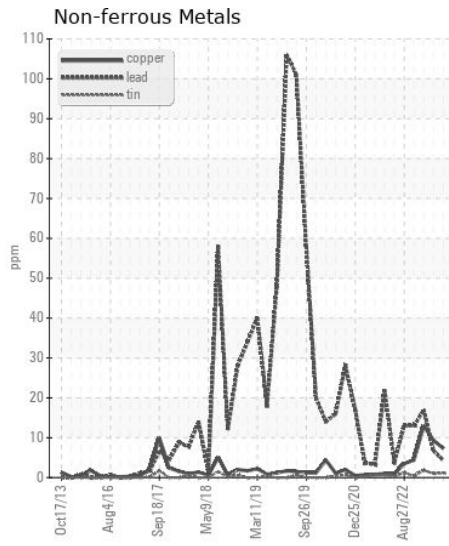
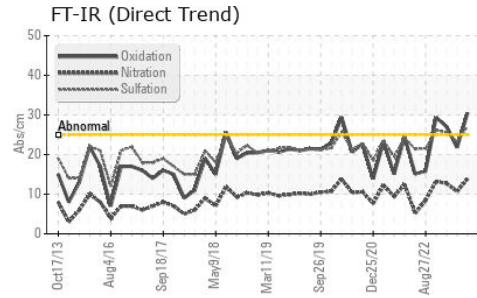
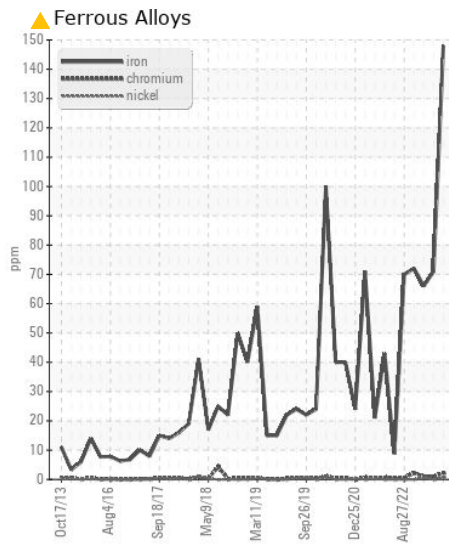
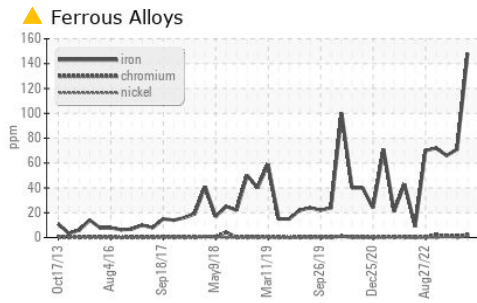
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	17	10	12
Potassium	ppm	ASTM D5185m	>20	4	0	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		0.3	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	13.9	10.7	12.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.1	23.3	25.5
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		2	1	0
Boron	ppm	ASTM D5185m	151	256	256	251
Barium	ppm	ASTM D5185m	0.4	<1	0	0
Molybdenum	ppm	ASTM D5185m	250	146	124	136
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m	0	740	730	673
Calcium	ppm	ASTM D5185m	2046	1659	1583	1623
Phosphorus	ppm	ASTM D5185m	1043	732	748	689
Zinc	ppm	ASTM D5185m	943	938	922	914
Sulfur	ppm	ASTM D5185m	5012	2671	2444	2486
Oxidation	Abs/.1mm	*ASTM D7414	>25	30.5	21.8	27.0
Base Number (BN)	mg KOH/g	ASTM D2896	12.5	7.9	7.8	7.9
Visc @ 100°C	cSt	ASTM D445	14.4	14.9	13.8	14.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0042022
Lab Number : 06178138
Unique Number : 11029464
Test Package : MAR 2

Received : 13 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 2024 - Sean Felton

C & B MARINE
 50 E RIVERCENTER BLVD, SUITE 1180
 COVINGTON, KY
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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)