



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
MV WILLIAM B
Component
Port Main Engine
Fluid
CHEVRON 15W40 (18 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0062696	MW0057084	MW0057057
Sample Date		Client Info		01 May 2024	01 Mar 2024	23 Sep 2023
Machine Age	hrs	Client Info		5428	4645	3800
Oil Age	hrs	Client Info		500	500	750
Filter Age	hrs	Client Info		500	500	750
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	13	12	12
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>7	3	3	0
Lead	ppm	ASTM D5185m	>6	<1	0	<1
Copper	ppm	ASTM D5185m	>175	39	6	4
Tin	ppm	ASTM D5185m	>8	<1	0	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

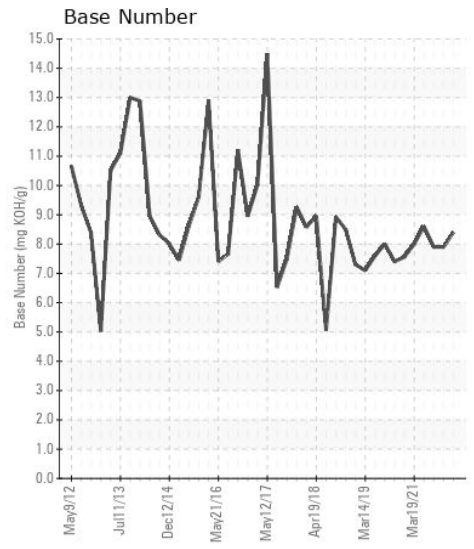
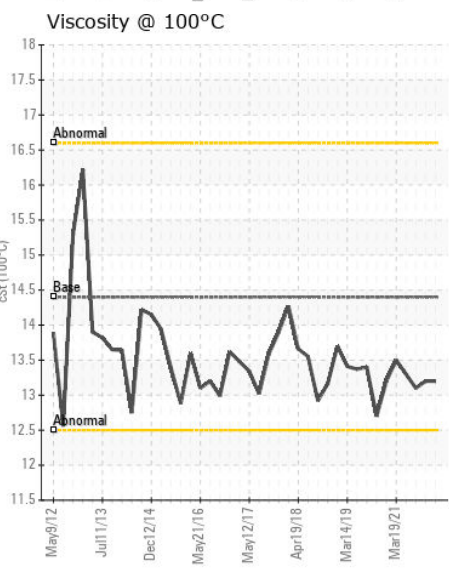
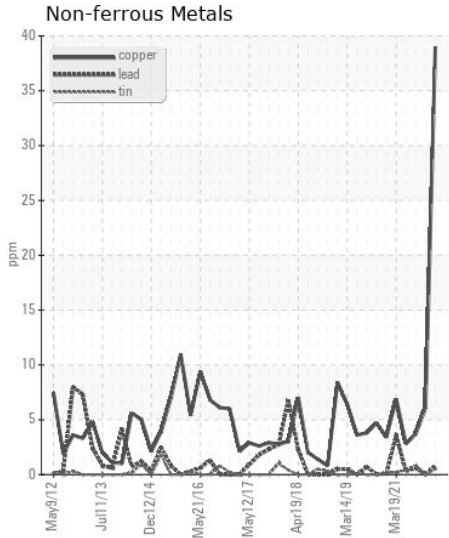
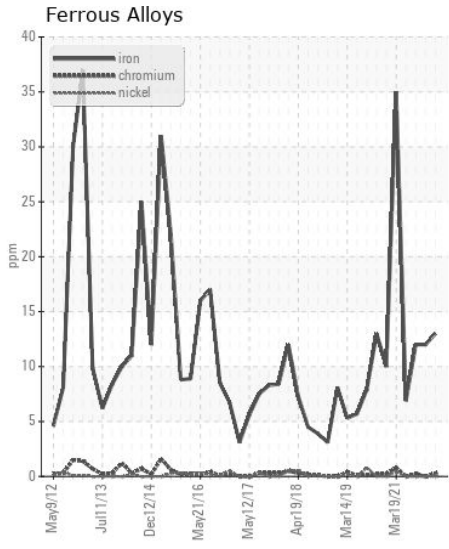
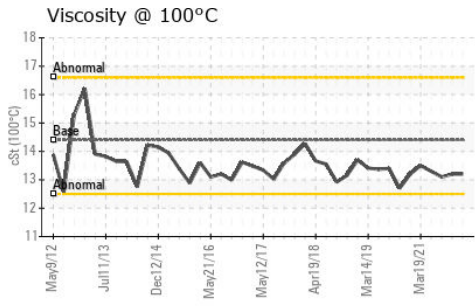
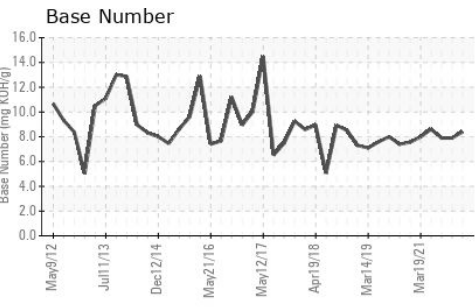
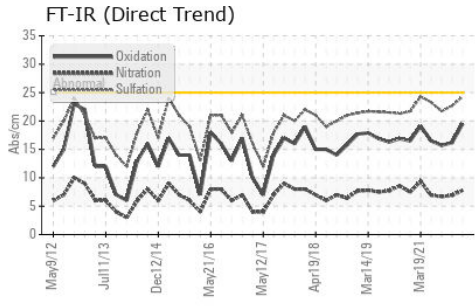
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	4	4
Potassium	ppm	ASTM D5185m	>20	2	0	0
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		0.2	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.8	6.9	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	22.7	21.7
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	>50	3	12	2
Boron	ppm	ASTM D5185m		227	318	339
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		100	125	121
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		624	578	572
Calcium	ppm	ASTM D5185m		1584	1490	1413
Phosphorus	ppm	ASTM D5185m		810	642	700
Zinc	ppm	ASTM D5185m		930	789	855
Sulfur	ppm	ASTM D5185m		2768	2365	2531
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	16.2	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	7.9	7.9
Visc @ 100°C	cSt	ASTM D445	14.4	13.2	13.2	13.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0062696
Lab Number : 06174867
Unique Number : 11020920
Test Package : MAR 2

Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 10 May 2024 - Wes Davis

C & B MARINE
 50 E RIVERCENTER BLVD, SUITE 1180
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 Contact: DAVID WESTRICH
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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)