



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
CATERPILLAR MV WILLIAM B
Component
Port Genset
Fluid
CHEVRON 15W40 (3 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0057062	MW0057060	MW0057076
Sample Date		Client Info		01 May 2024	11 Mar 2024	20 Oct 2023
Machine Age	hrs	Client Info		40619	40084	2989345
Oil Age	hrs	Client Info		500	750	500
Filter Age	hrs	Client Info		500	750	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	8	8	1
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>5	0	0	<1
Aluminum	ppm	ASTM D5185m	>12	3	3	2
Lead	ppm	ASTM D5185m	>17	6	5	0
Copper	ppm	ASTM D5185m	>70	3	2	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

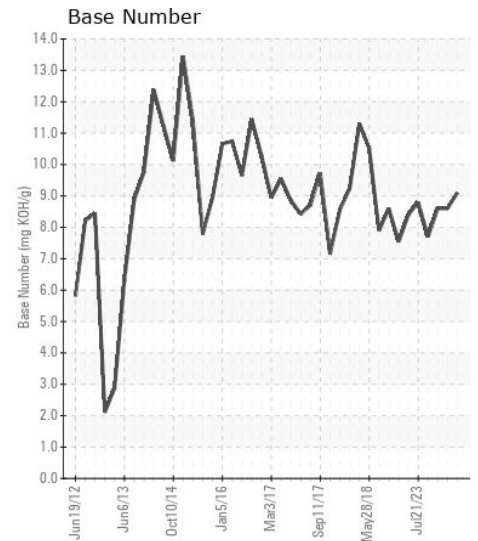
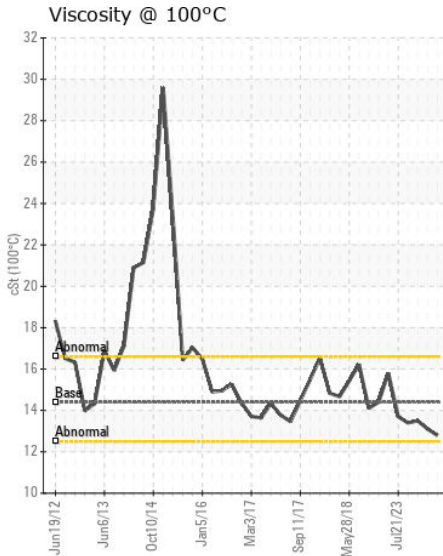
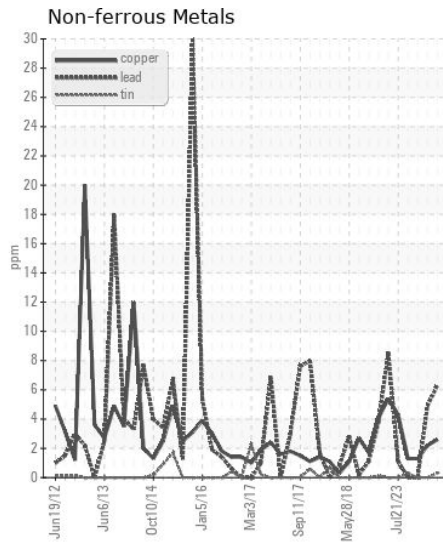
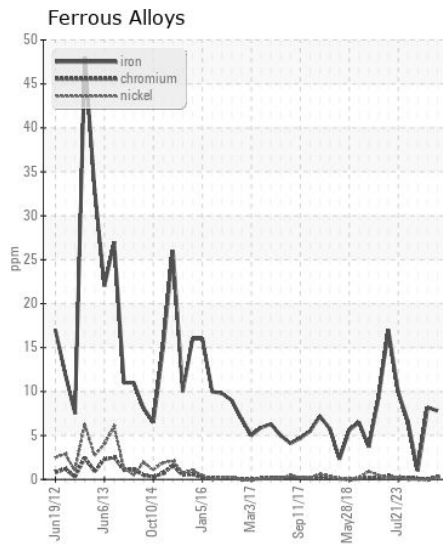
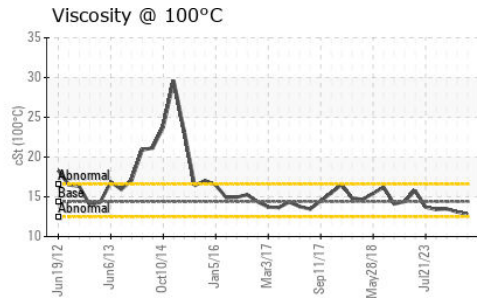
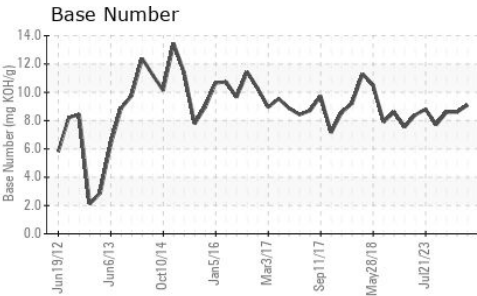
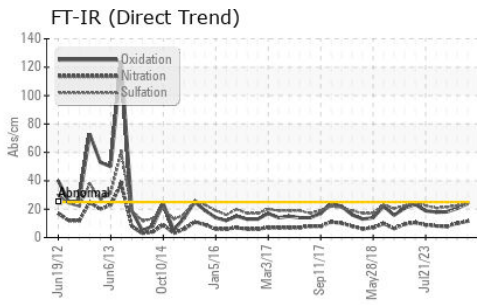
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	7	6	5
Potassium	ppm	ASTM D5185m	>20	2	<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		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	11.6	10.0	7.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	22.6	21.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	1	2	<1
Boron	ppm	ASTM D5185m		356	265	310
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		137	134	125
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		670	734	616
Calcium	ppm	ASTM D5185m		1566	1766	1466
Phosphorus	ppm	ASTM D5185m		768	842	756
Zinc	ppm	ASTM D5185m		895	968	920
Sulfur	ppm	ASTM D5185m		2708	3270	2577
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.0	20.6	18.1
Base Number (BN)	mg KOH/g	ASTM D2896		9.1	8.6	8.6
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	13.1	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0057062
Lab Number : 06174912
Unique Number : 11020965
Test Package : MAR 2

Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 13 May 2024 - Sean Felton

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