



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**BOWERMAN - ORANGE COUNTY CA**  
Machine Id  
**CATERPILLAR BOW 6**  
Component  
**Biogas Engine**  
Fluid  
**MOBIL PEGASUS 605 (480 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0848338</b>	WC0848232	WC0848218
Sample Date		Client Info		<b>25 Jun 2024</b>	12 Jun 2024	06 May 2024
Machine Age	hrs	Client Info		<b>66314</b>	66003	65198
Oil Age	hrs	Client Info		<b>1206</b>	895	90
Filter Age	hrs	Client Info		<b>1206</b>	895	90
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	1
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>5	<b>2</b>	1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

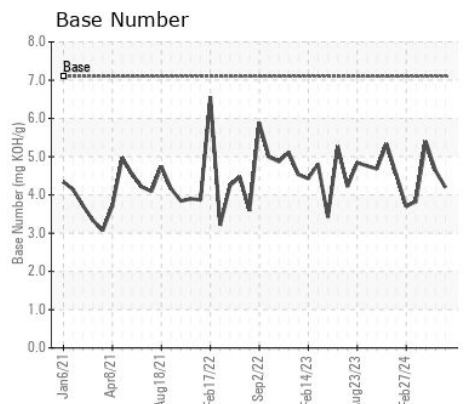
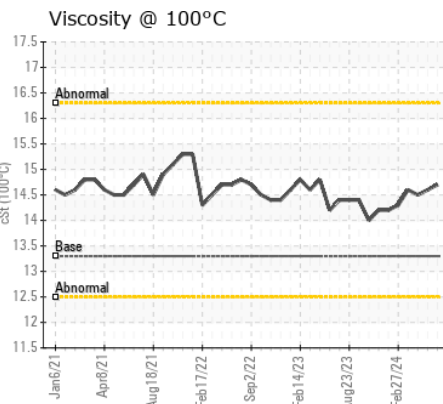
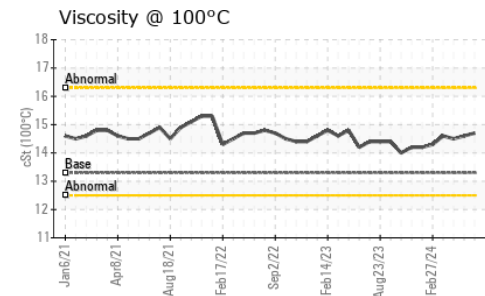
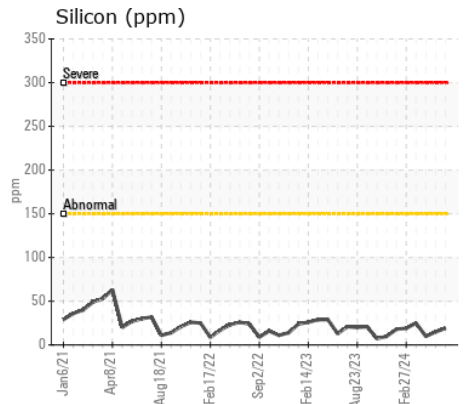
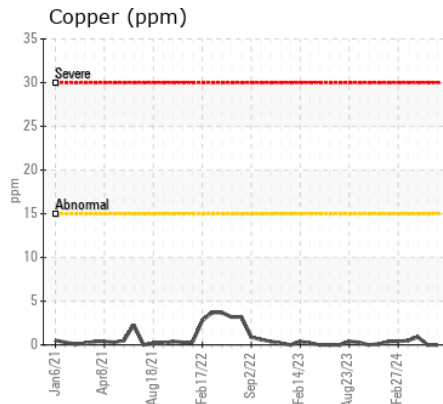
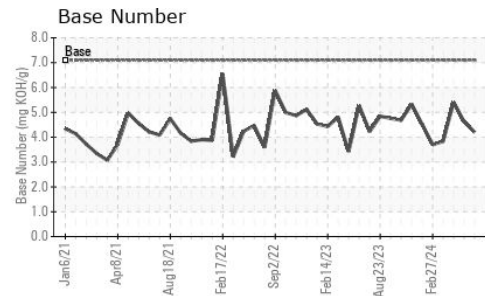
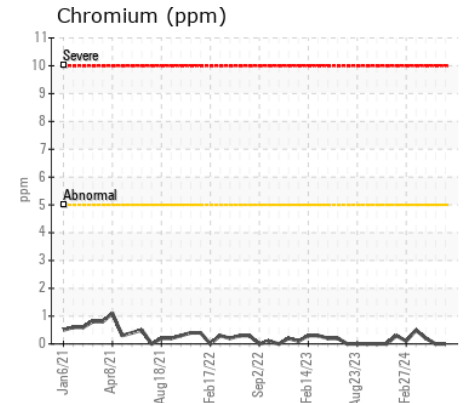
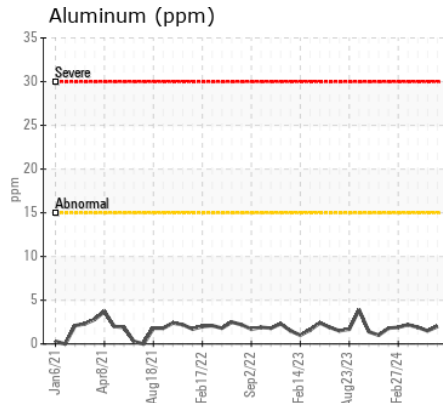
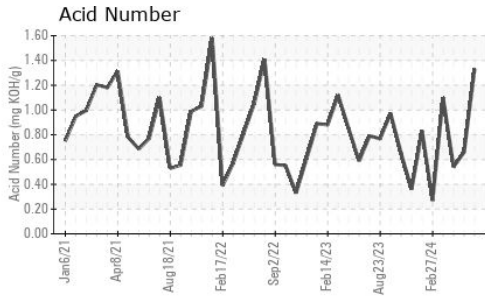
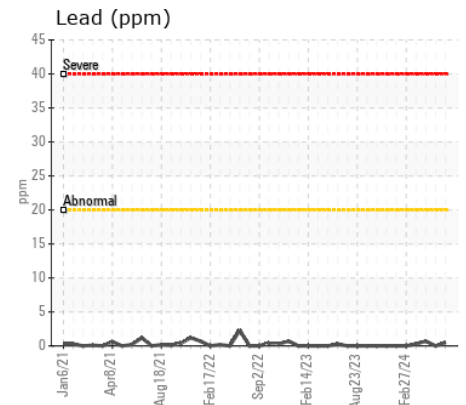
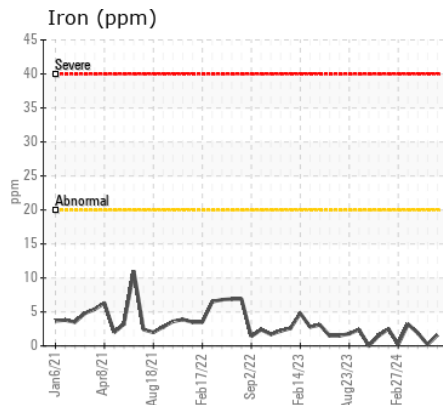
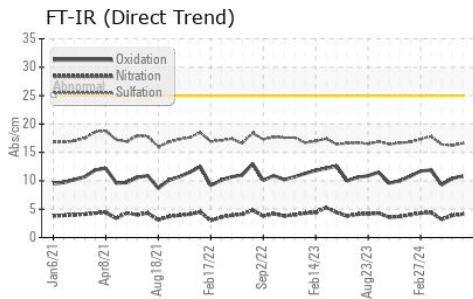
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>150	<b>19</b>	15	10
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.1</b>	3.9	3.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.6</b>	16.2	16.4
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	0
Boron	ppm	ASTM D5185m		<b>85</b>	100	169
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>7</b>	3	7
Calcium	ppm	ASTM D5185m		<b>1642</b>	1718	1457
Phosphorus	ppm	ASTM D5185m		<b>411</b>	419	418
Zinc	ppm	ASTM D5185m		<b>497</b>	543	510
Sulfur	ppm	ASTM D5185m		<b>3812</b>	4067	3696
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>10.8</b>	10.4	9.3
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.33</b>	0.66	0.54
Base Number (BN)	mg KOH/g	ASTM D2896	7.1	<b>4.20</b>	4.63	5.40
Visc @ 100°C	cSt	ASTM D445	13.3	<b>14.7</b>	14.6	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0848338  
**Lab Number** : 06222885  
**Unique Number** : 11101082  
**Test Package** : MOB 2

**Received** : 27 Jun 2024  
**Tested** : 28 Jun 2024  
**Diagnosed** : 29 Jun 2024 - Don Baldrige

**MONTAUK ENERGY CAPITAL LLC (TEXAS) LP**  
 1412 N SAM HOUSTON PKWY E, SUITE 100  
 HOUSTON, TX  
 US 77032

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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)