MOB II WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ENG 6
Component
Right Biogas Engine
Fluid
AMERICAN REFINING GROUP LOW ASH 40 (110 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

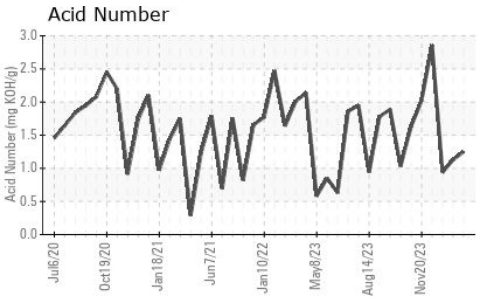
CONTAMINATION

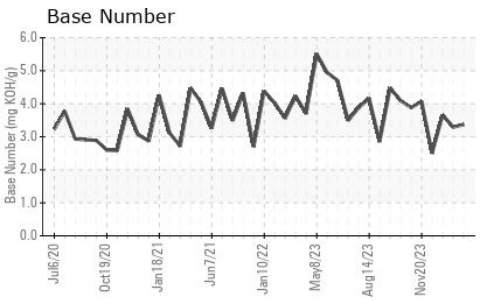
There is no indication of any contamination in the oil.

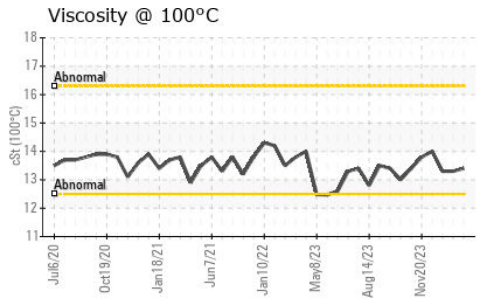
FLUID CONDITION

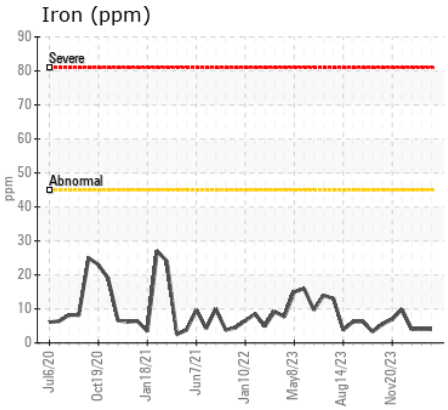
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

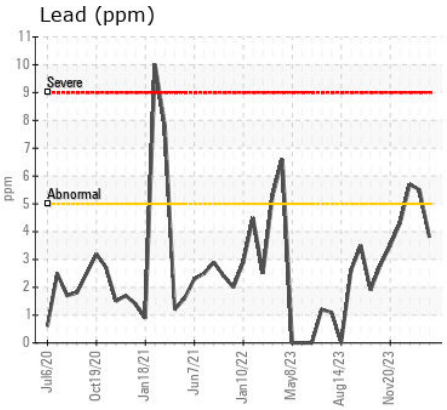
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0881534**	WC0881530	WC0881527
Sample Date		Client Info		**05 Feb 2024**	29 Jan 2024	22 Jan 2024
Machine Age	hrs	Client Info		**84218**	84051	83883
Oil Age	hrs	Client Info		**742**	575	407
Filter Age	hrs	Client Info		**742**	575	407
Oil Changed		Client Info		**N/A**	N/A	Changed
Filter Changed		Client Info		**N/A**	N/A	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>45	**4**	4	4
Chromium	ppm	ASTM D5185m	>2	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m	>5	**0**	<1	0
Aluminum	ppm	ASTM D5185m	>10	**1**	3	3
Lead	ppm	ASTM D5185m	>5	**4**	6	6
Copper	ppm	ASTM D5185m	>14	**2**	3	3
Tin	ppm	ASTM D5185m	>13	**4**	4	4
Vanadium	ppm	ASTM D5185m		**0**	<1	0
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>200	**161**	145	130
Potassium	ppm	ASTM D5185m	>20	**2**	3	4
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**	0	0
Nitration	Abs/cm	*ASTM D7624	>20	**6.3**	5.9	5.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	**18.8**	17.8	17.2
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
Sodium	ppm	ASTM D5185m		**0**	3	3
Boron	ppm	ASTM D5185m		**4**	6	6
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**6**	5	5
Manganese	ppm	ASTM D5185m		**0**	2	2
Magnesium	ppm	ASTM D5185m		**38**	40	40
Calcium	ppm	ASTM D5185m		**1404**	1369	1349
Phosphorus	ppm	ASTM D5185m		**288**	327	326
Zinc	ppm	ASTM D5185m		**421**	417	410
Sulfur	ppm	ASTM D5185m		**2876**	2838	2844
Oxidation	Abs/.1mm	*ASTM D7414	>25	**13.9**	12.6	11.7
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.25**	1.13	0.94
Base Number (BN)	mg KOH/g	ASTM D2896		**3.37**	3.29	3.66
Visc @ 100°C	cSt	ASTM D445		**13.4**	13.3	13.3

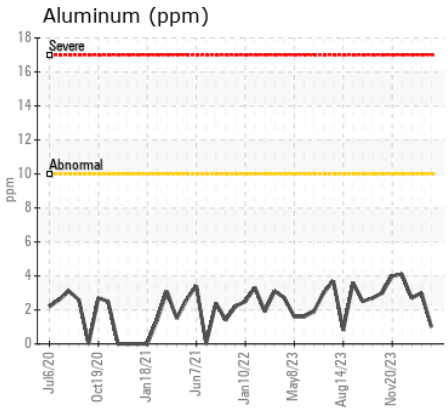


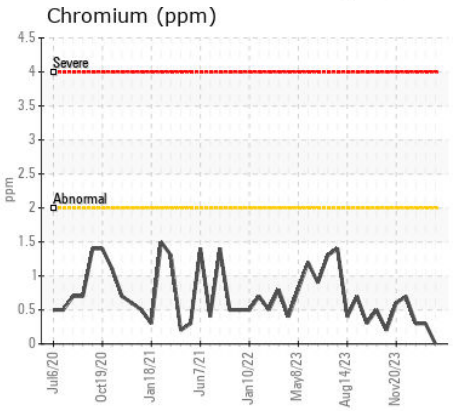


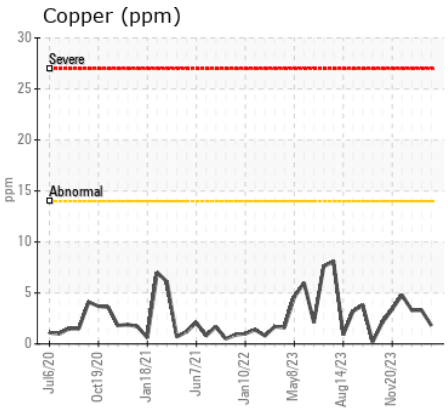


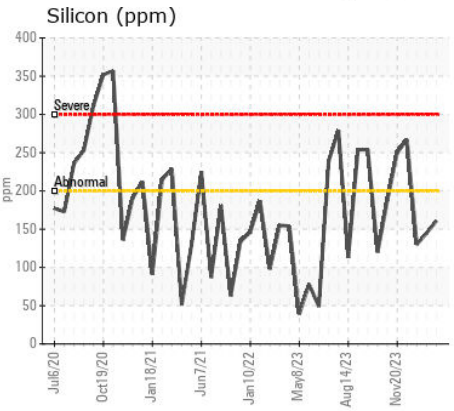


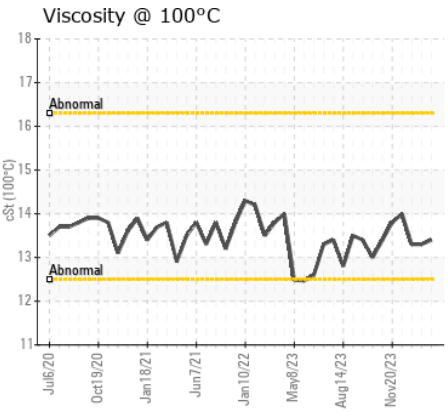


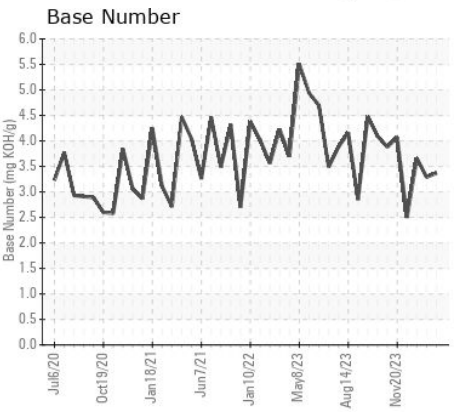












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0881534
Lab Number : 06083820
Unique Number : 10871265
Test Package : MOB 2

Received : 08 Feb 2024
Tested : 09 Feb 2024
Diagnosed : 11 Feb 2024 - Don Baldridge

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)

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