

## **OIL ANALYSIS REPORT**

Base Number (BN) mg KOH/g ASTM D2896

## Area **CONSTRUCTORS, INC** 040657

**Gasoline Engine** Fluid MOBIL 1 5W30 (--- GAL)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

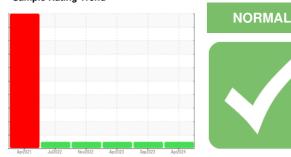
All component wear rates are normal.

#### 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 condition of the oil is suitable for further service.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0005767	SBP0004580	SBP0003734
Sample Date		Client Info		18 Apr 2024	15 Sep 2023	14 Apr 2023
Machine Age	hrs	Client Info		2643	2241	1963
Oil Age	hrs	Client Info		402	278	354
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	107	49	61
Chromium	ppm	ASTM D5185m	>20	6	4	4
Nickel	ppm	ASTM D5185m	>5	2	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	10	6	7
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>155	36	34	37
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	94	27	26	37
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0.0	73	69	69
Manganese	ppm	ASTM D5185m		2	<1	1
Magnesium	ppm	ASTM D5185m	1388	483	489	462
Calcium	ppm	ASTM D5185m	820	1164	1165	1135
Phosphorus	ppm	ASTM D5185m	720	616	640	622
Zinc	ppm	ASTM D5185m	780	766	778	748
Sulfur	ppm	ASTM D5185m	2240	2548	2707	2242
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	13	11	14
Sodium	ppm	ASTM D5185m	>400	6	4	4
Potassium	ppm	ASTM D5185m	>20	3	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	13.6	13.3	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5	28.0	23.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.3	22.5	19.3

3.2

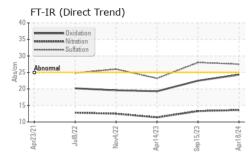
4.8

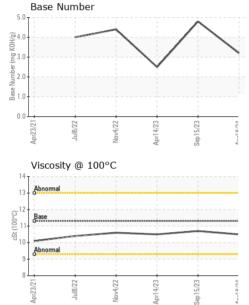
2.5

Sample Rating Trend



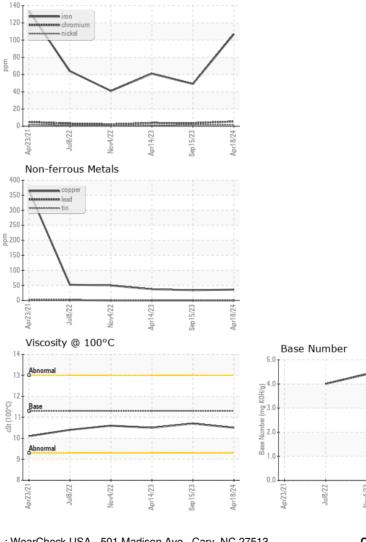
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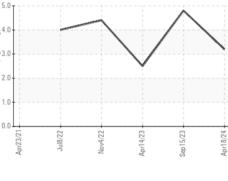


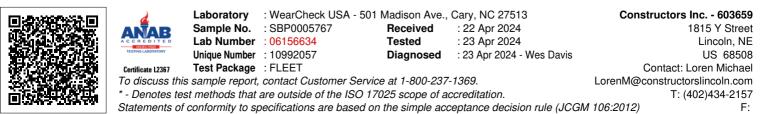


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
TEOD THOTEM		method	IIIII/base	ourrent	motory i	motoryz
Visc @ 100°C	cSt	ASTM D445	11.3	10.5	10.7	10.5
GRAPHS						









Submitted By: Loren Michael

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