

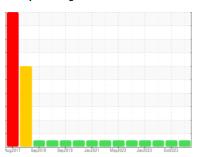
# **OIL ANALYSIS REPORT**

# CONSTRUCTORS, INC 040686

Component

**Gasoline Engine** 

MOBIL 1 FORMULA SAE 5W30 (--- GAL)



Sample Rating Trend



### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

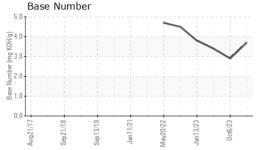
### **Fluid Condition**

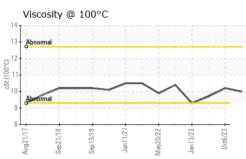
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Aug2017 Se	prote oprote on	· .	Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		SBP0005737	SBP0004843	SBP0004460	
Sample Date		Client Info		24 Jan 2024	06 Oct 2023	25 May 2023	
Machine Age	hrs	Client Info		6110	5902	5552	
Oil Age	hrs	Client Info		208	350	280	
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	40	35	25	
Chromium	ppm	ASTM D5185m	>20	3	3	2	
Nickel	ppm	ASTM D5185m	>5	<1	1	<1	
Titanium	ppm	ASTM D5185m		<1	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>40	8	7	5	
Lead	ppm	ASTM D5185m	>50	0	1	0	
Copper	ppm	ASTM D5185m	>155	11	9	12	
Tin	ppm	ASTM D5185m	>100	<1	<1	0	
Vanadium	ppm	ASTM D5185m	710	<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
	ррпп						
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		94	20	49	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		92	70	75	
Manganese	ppm	ASTM D5185m		<1	1	<1	
Magnesium	ppm	ASTM D5185m		614	521	497	
Calcium	ppm	ASTM D5185m		1435	1187	1237	
Phosphorus	ppm	ASTM D5185m		755	682	685	
Zinc	ppm	ASTM D5185m		956	800	814	
Sulfur	ppm	ASTM D5185m		3457	2703	3215	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	19	17	12	
Sodium	ppm	ASTM D5185m	>400	2	4	2	
Potassium	ppm	ASTM D5185m	>20	3	4	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0.1	0	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	10.3	11.3	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	23.4	21.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	19.3	15.8	
Base Number (BN)	mg KOH/g	ASTM D2896	720	3.7	2.9	3.4	
Dasc Number (DIV)	my Kony	AOTIVI DZ000		J.1	2.0	0.7	



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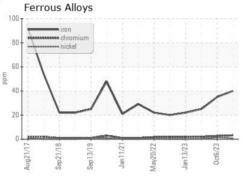


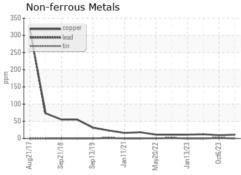


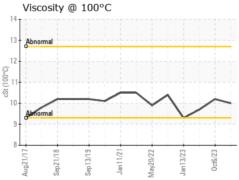
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

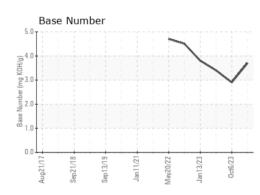
FLUID PROPERTIES		method			history2	
Visc @ 100°C	cSt	ASTM D445	10.0	10.2	9.7	

### **GRAPHS**











Report Id: CONLINNE [WUSCAR] 06073807 (Generated: 01/31/2024 10:09:13) Rev: 1

Laboratory Sample No. Lab Number **Unique Number** 

: SBP0005737 : 06073807 : 10855898 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024

Diagnosed Diagnostician : Wes Davis

: 31 Jan 2024

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: Loren Michael LorenM@constructorslincoln.com

T: (402)434-2157

Constructors Inc. - 603659

\* - 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) 1815 Y Street

Lincoln, NE

US 68508