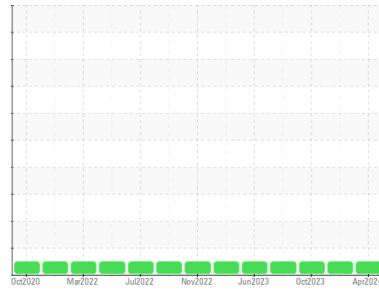




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**CONSTRUCTORS, INC**  
 Machine Id  
**040604**  
 Component  
**Gasoline Engine**  
 Fluid  
**MOBIL 1 5W30 (--- GAL)**

### DIAGNOSIS

#### 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>SBP0005771</b>	SBP0005744	SBP0004891
Sample Date	Client Info		<b>18 Apr 2024</b>	11 Jan 2024	26 Oct 2023
Machine Age	hrs	Client Info	<b>6437</b>	6170	5853
Oil Age	hrs	Client Info	<b>267</b>	317	318
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>6</b>	3	4
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >40	<b>3</b>	2	2
Lead	ppm	ASTM D5185m >50	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m >155	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	2	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 94	<b>93</b>	108	30
Barium	ppm	ASTM D5185m 0.0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 0.0	<b>70</b>	69	64
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 1388	<b>498</b>	489	492
Calcium	ppm	ASTM D5185m 820	<b>1182</b>	1181	1081
Phosphorus	ppm	ASTM D5185m 720	<b>640</b>	626	643
Zinc	ppm	ASTM D5185m 780	<b>791</b>	778	725
Sulfur	ppm	ASTM D5185m 2240	<b>2783</b>	2678	2519

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>8</b>	9	12
Sodium	ppm	ASTM D5185m >400	<b>4</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	1

### INFRA-RED

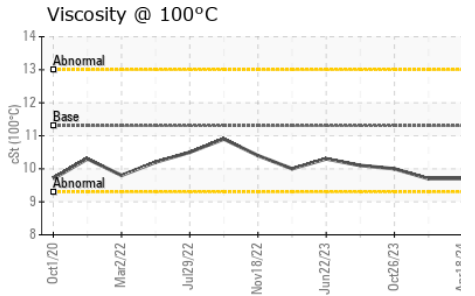
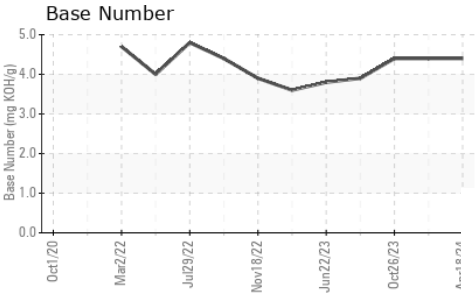
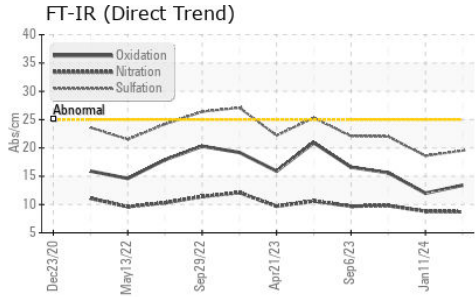
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.7</b>	8.8	9.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.5</b>	18.6	22.0

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.4</b>	12.0	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.4</b>	4.4	4.4



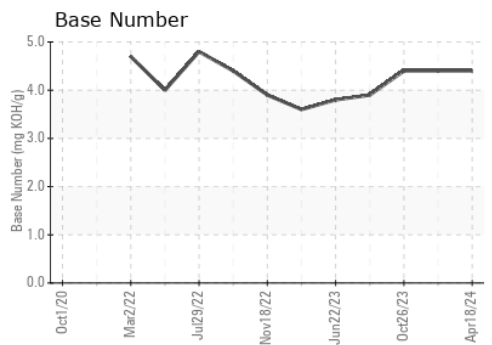
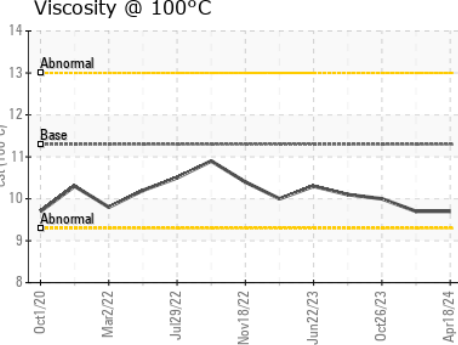
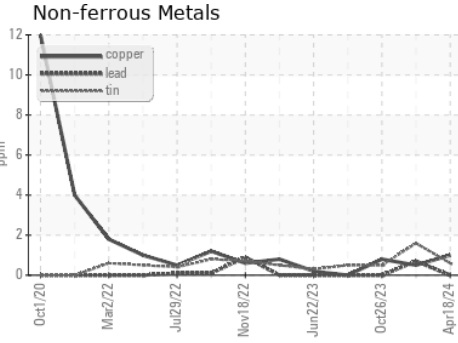
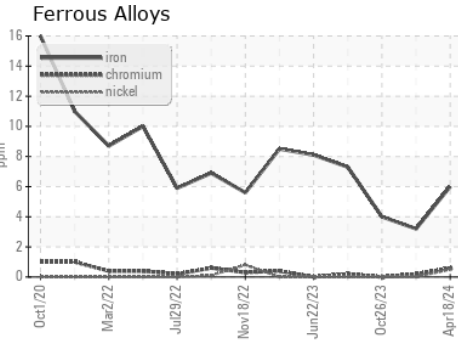
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.3	9.7	10.0

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0005771      **Received** : 22 Apr 2024  
**Lab Number** : 06156633      **Tested** : 23 Apr 2024  
**Unique Number** : 10992056      **Diagnosed** : 23 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**Constructors Inc. - 603659**  
 1815 Y Street  
 Lincoln, NE  
 US 68508  
 Contact: Loren Michael  
 LorenM@constructorslincoln.com  
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 F:

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)