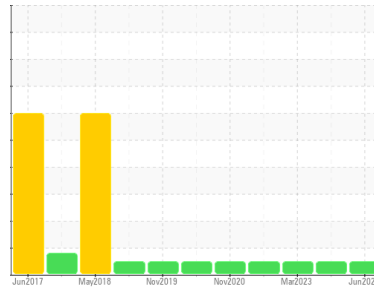




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**CONSTRUCTORS, INC**  
 Machine Id  
**40637**  
 Component  
**Gasoline Engine**  
 Fluid  
**MOBIL CLEAN 5W30 5000 (--- 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>SBP0007091</b>	SBP0004571	SBP0003802
Sample Date	Client Info		<b>19 Jun 2024</b>	28 Sep 2023	23 Mar 2023
Machine Age	hrs	Client Info	<b>6645</b>	6353	6082
Oil Age	hrs	Client Info	<b>292</b>	271	277
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>49</b>	29	22
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>7</b>	4	4
Lead	ppm	ASTM D5185m	>50	<b>2</b>	<1	0
Copper	ppm	ASTM D5185m	>155	<b>15</b>	14	19
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<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		<b>60</b>	48	58
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>71</b>	70	68
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>508</b>	500	519
Calcium	ppm	ASTM D5185m		<b>1251</b>	1164	1249
Phosphorus	ppm	ASTM D5185m		<b>667</b>	651	642
Zinc	ppm	ASTM D5185m		<b>812</b>	783	815
Sulfur	ppm	ASTM D5185m		<b>3134</b>	2724	2999

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	<b>16</b>	14	12
Sodium	ppm	ASTM D5185m	>400	<b>3</b>	2	3
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	1	3

## INFRA-RED

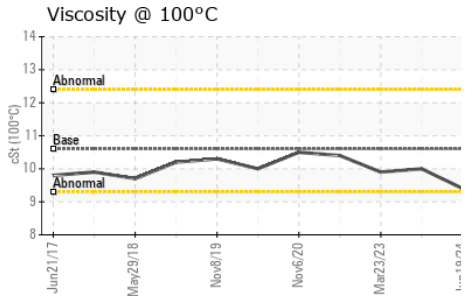
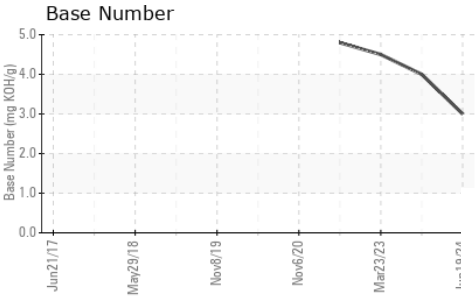
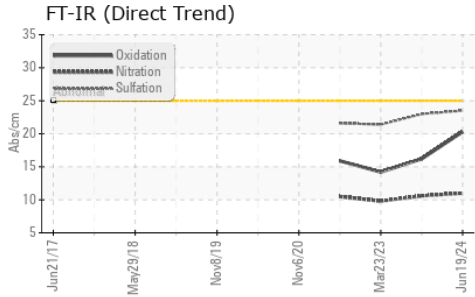
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		<b>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	10.6	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.5</b>	23.0	21.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.3</b>	16.2	14.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.0</b>	4.0	4.5



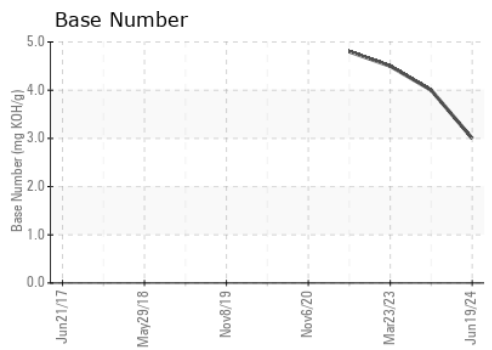
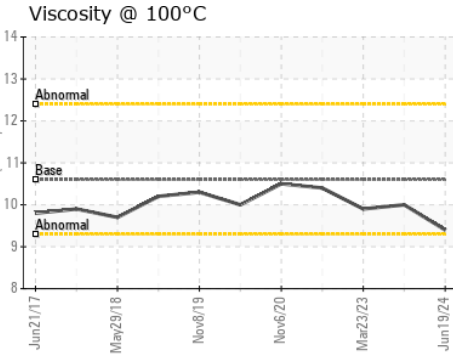
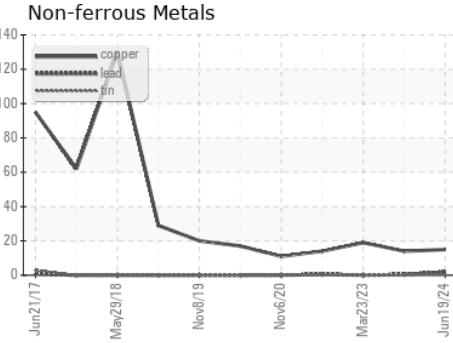
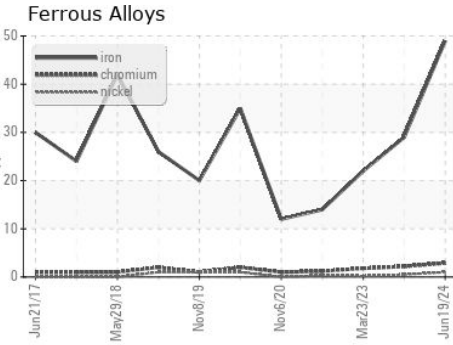
# OIL ANALYSIS REPORT



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	10.6	<b>9.4</b>	10.0	9.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007091      **Received** : 24 Jun 2024  
**Lab Number** : **06219013**      **Tested** : 26 Jun 2024  
**Unique Number** : 11097210      **Diagnosed** : 26 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**Constructors Inc. - 603659**  
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 US 68508  
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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)