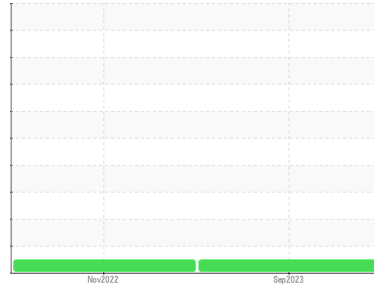




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**03-0356 INTERNATIONAL 5 YARD DUMP (S/N 3HAEUMML9ML325675)**

Component  
**Gasoline Engine**

Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- 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>SBP0004904</b>	SBP0002107	---
Sample Date	Client Info	<b>28 Sep 2023</b>	28 Nov 2022	---
Machine Age	hrs	Client Info	<b>1607</b>	1113
Oil Age	hrs	Client Info	<b>494</b>	599
Oil Changed	Client Info	<b>Changed</b>	Changed	---
Sample Status		<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>150	<b>79</b>	95
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0
Aluminum	ppm	ASTM D5185m	>40	<b>53</b>	31
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1
Copper	ppm	ASTM D5185m	>155	<b>8</b>	35
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<b>21</b>	19
Barium	ppm	ASTM D5185m	0	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	0	<b>47</b>	7
Manganese	ppm	ASTM D5185m		<b>2</b>	2
Magnesium	ppm	ASTM D5185m	0	<b>821</b>	750
Calcium	ppm	ASTM D5185m		<b>1360</b>	1375
Phosphorus	ppm	ASTM D5185m		<b>813</b>	727
Zinc	ppm	ASTM D5185m		<b>1093</b>	867
Sulfur	ppm	ASTM D5185m		<b>3122</b>	3290

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	<b>15</b>	14
Sodium	ppm	ASTM D5185m	>400	<b>8</b>	4
Potassium	ppm	ASTM D5185m	>20	<b>108</b>	54

## INFRA-RED

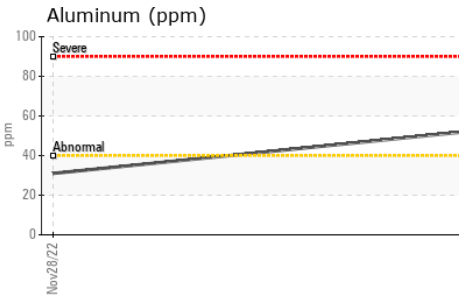
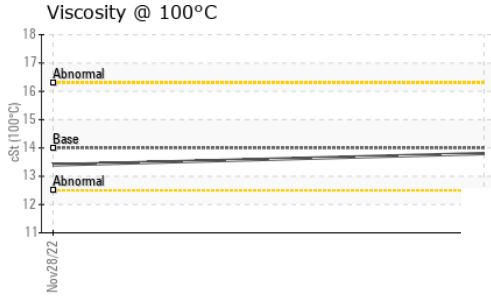
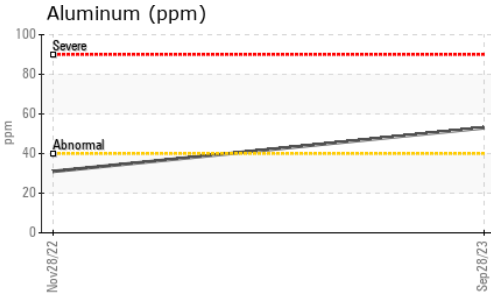
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		<b>0.7</b>	0.9
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.9</b>	12.4
Sulfation	Abs.1mm	*ASTM D7415	>30	<b>23.1</b>	26.6

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs.1mm	*ASTM D7414	>25	<b>20.0</b>	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>7.2</b>	7.2



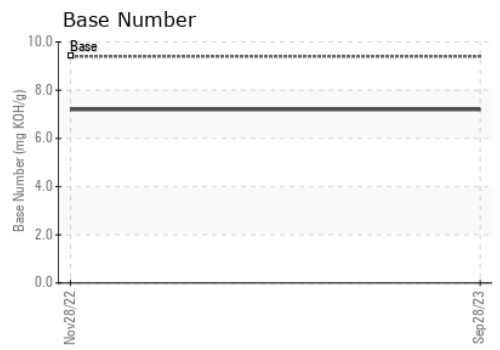
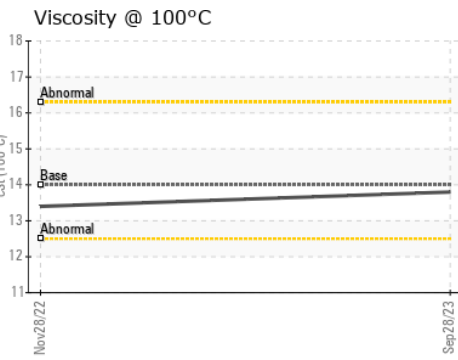
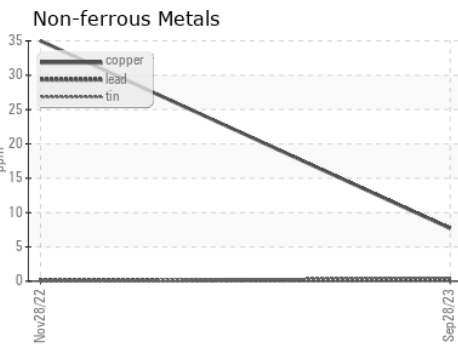
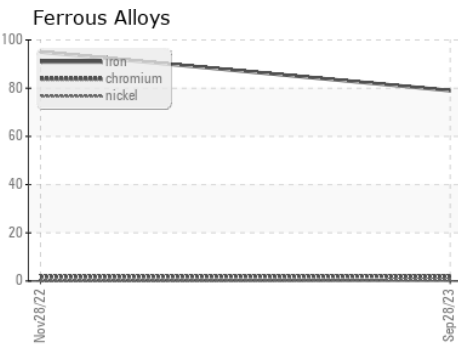
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445 14	<b>13.8</b>	13.4	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0004904 **Received** : 02 Oct 2023  
**Lab Number** : **05966979** **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10673530 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**Constructors Inc. - 603659**  
 1815 Y Street  
 Lincoln, NE  
 US 68508  
 Contact: Jack Linhart  
 jackl@constructorslincoln.com  
 T: (402)434-2157  
 F:

Certificate L2367  
 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)