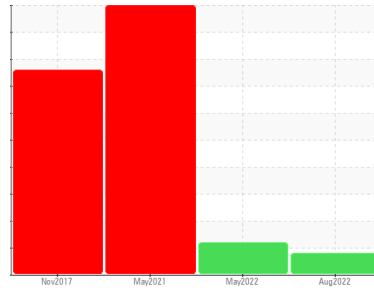




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**CONSTRUCTORS, INC**

Machine Id  
**111032**

Component  
**Right Final Drive**

Fluid  
**MOBIL MOBILUBE HD PLUS 80W90 (--- GAL)**

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

Gear wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>SBP0001228</b>	SBP0000688	SBP52142006
Sample Date	Client Info		<b>17 Aug 2022</b>	04 May 2022	28 May 2021
Machine Age	hrs	Client Info	<b>8606</b>	8075	6623
Oil Age	hrs	Client Info	<b>531</b>	1452	2366
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>▲ 555</b>	▲ 780	▲ 1177
Chromium	ppm	ASTM D5185m >10	<b>4</b>	4	10
Nickel	ppm	ASTM D5185m	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>3</b>	5	15
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>1</b>	1	2
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>55</b>	276	205
Barium	ppm	ASTM D5185m	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Manganese	ppm	ASTM D5185m	<b>3</b>	5	0
Magnesium	ppm	ASTM D5185m	<b>5</b>	2	5
Calcium	ppm	ASTM D5185m	<b>53</b>	17	373
Phosphorus	ppm	ASTM D5185m	<b>1008</b>	1413	1537
Zinc	ppm	ASTM D5185m	<b>32</b>	3	148
Sulfur	ppm	ASTM D5185m	<b>17841</b>	20470	---

## CONTAMINANTS

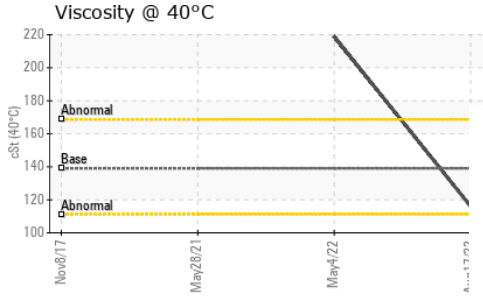
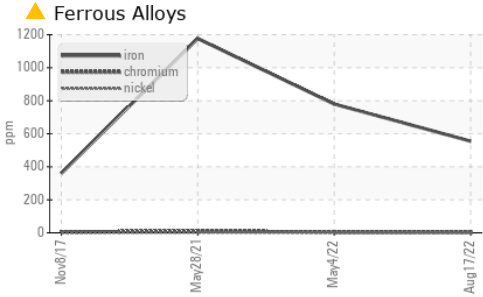
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>18</b>	26	▲ 84
Sodium	ppm	ASTM D5185m	<b>0</b>	1	3
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	9
Chlorine	ppm	ASTM D5185m	<b>---</b>	---	0

## VISUAL

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



# OIL ANALYSIS REPORT



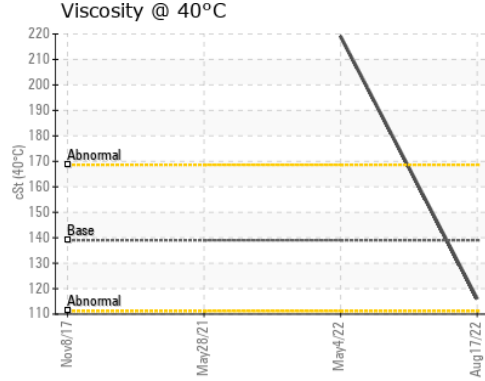
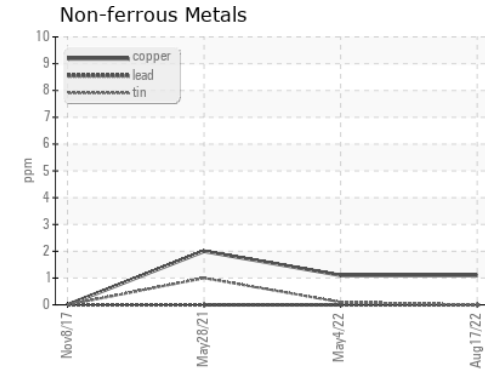
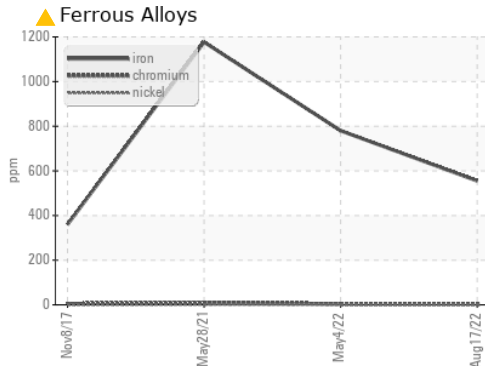
FLUID PROPERTIES	method	limit/base	current	history1	history2
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Visc @ 40°C	cSt	ASTM D445	139	<b>116</b>	● 219	---
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SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0001228      **Received** : 22 Aug 2022  
**Lab Number** : 05623492      **Tested** : 23 Aug 2022  
**Unique Number** : 10102999      **Diagnosed** : 23 Aug 2022 - Jonathan Hester  
**Test Package** : FLEET

**Constructors Inc. - 603659**  
 1815 Y Street  
 Lincoln, NE  
 US 68508  
 Contact: Loren Michael  
 LorenM@constructorslincoln.com  
 T: (402)434-2157  
 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)