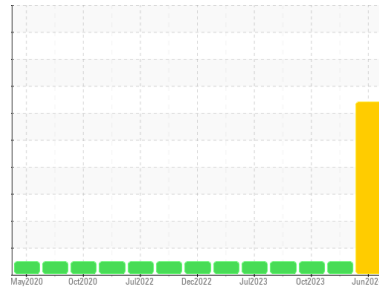




# PROBLEM SUMMARY

Area  
**CONSTRUCTORS, INC**  
 Machine Id  
**121265**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)**

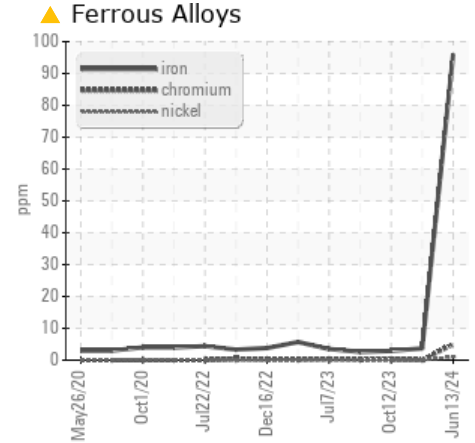
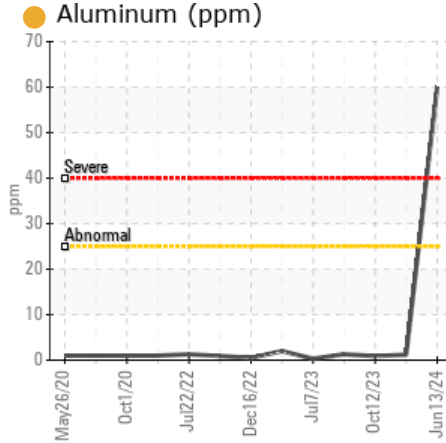
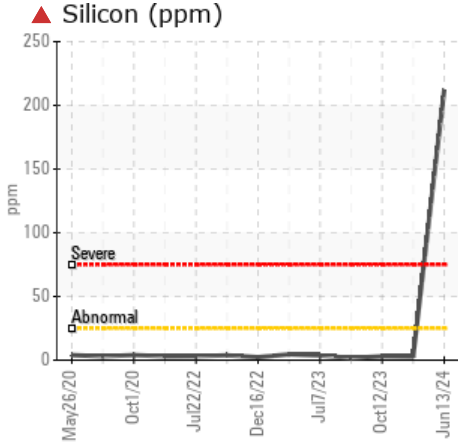
## Sample Rating Trend



**DIRT**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	NORMAL	NORMAL
Iron	ppm ASTM D5185m >100	▲ 96	4	3
Silicon	ppm ASTM D5185m >25	▲ 212	3	3

Customer Id: CONLINNE  
 Sample No.: SBP0006611  
 Lab Number: 06219005  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.

## HISTORICAL DIAGNOSIS

NORMAL



### 19 Jan 2024 Diag: Sean Felton

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



NORMAL



### 12 Oct 2023 Diag: Don Baldrige

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



NORMAL



### 16 Aug 2023 Diag: Angela Borella

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report





# OIL ANALYSIS REPORT

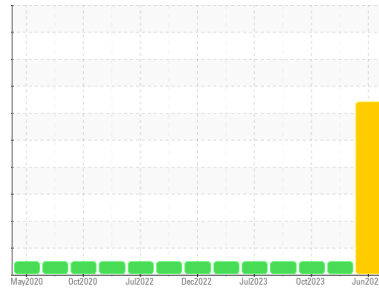
Area  
**CONSTRUCTORS, INC**

Machine Id  
**121265**

Component  
**Diesel Engine**

Fluid  
**MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)**

Sample Rating Trend



**DIRT**



## DIAGNOSIS

### Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

An increase in the iron level is noted.

### Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>SBP0006611</b>	SBP0005752	SBP0004893
Sample Date	Client Info		<b>13 Jun 2024</b>	19 Jan 2024	12 Oct 2023
Machine Age	hrs	Client Info	<b>11869</b>	11398	10741
Oil Age	hrs	Client Info	<b>471</b>	657	559
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>SEVERE</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<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	>100	<b>▲ 96</b>	4	3
Chromium	ppm	ASTM D5185m	>20	<b>5</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>3</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>● 60</b>	1	<1
Lead	ppm	ASTM D5185m	>40	<b>4</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>6</b>	3	2
Tin	ppm	ASTM D5185m	>15	<b>2</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>3</b>	0	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>58</b>	58	57
Manganese	ppm	ASTM D5185m		<b>4</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1044</b>	1024	869
Calcium	ppm	ASTM D5185m		<b>2463</b>	1073	987
Phosphorus	ppm	ASTM D5185m		<b>1102</b>	1050	899
Zinc	ppm	ASTM D5185m		<b>1316</b>	1297	1108
Sulfur	ppm	ASTM D5185m		<b>3947</b>	3181	2792

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>▲ 212</b>	3	3
Sodium	ppm	ASTM D5185m		<b>13</b>	3	4
Potassium	ppm	ASTM D5185m	>20	<b>27</b>	2	<1

## INFRA-RED

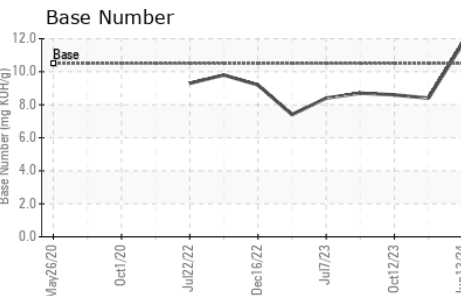
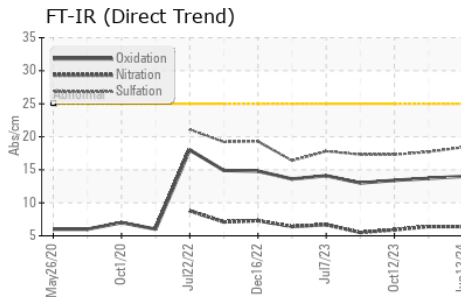
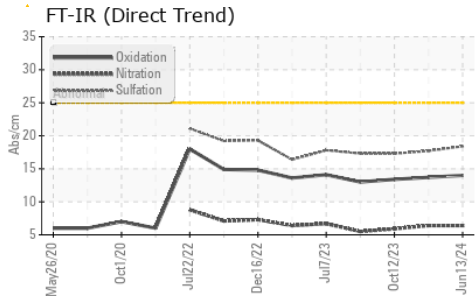
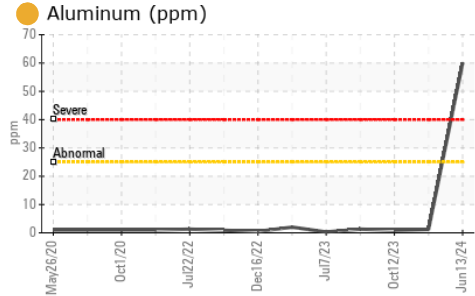
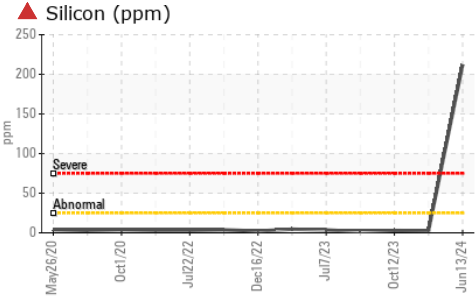
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.4</b>	6.4	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.4</b>	17.7	17.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.0</b>	13.7	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>11.7</b>	8.4	8.6



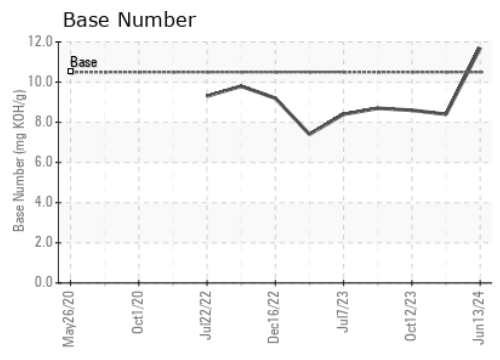
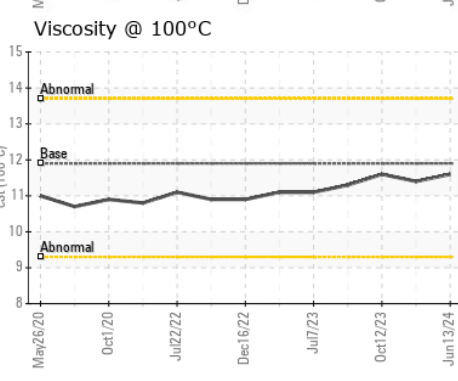
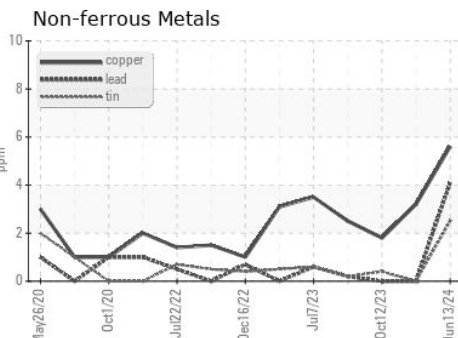
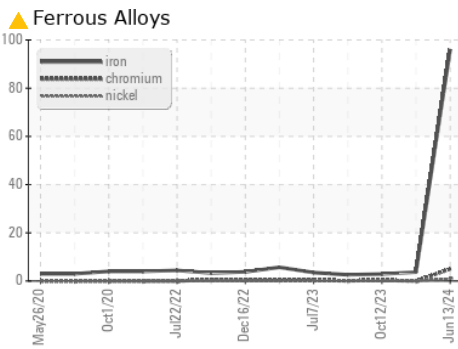
# OIL ANALYSIS REPORT



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	11.9	11.6	11.4	11.6

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0006611      **Received** : 24 Jun 2024  
**Lab Number** : 06219005      **Tested** : 26 Jun 2024  
**Unique Number** : 11097202      **Diagnosed** : 26 Jun 2024 - Don Baldrige  
**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)