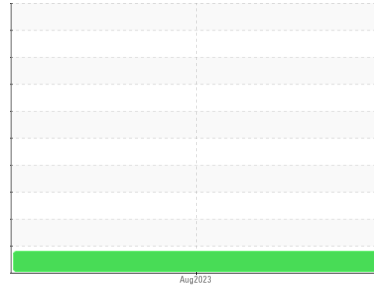




# PROBLEM SUMMARY

Sample Rating Trend



**WEAR**



Machine Id  
**DOOSAN DA30 219 CORE (S/N DDA30C30740608)**  
Component  
**Front Differential**  
Fluid  
**DOOSAN 80W90 LIMITED SLIP (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



## RECOMMENDATION

No corrective action is recommended at this time.  
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	---	---
Iron	ppm	ASTM D5185m	>500	▲ 621	---	---

Customer Id: GRALAV  
Sample No.: KFS0002944  
Lab Number: 05935027  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**



Machine Id  
**DOOSAN DA30 219 CORE (S/N DDA30C30740608)**  
 Component  
**Front Differential**  
 Fluid  
**DOOSAN 80W90 LIMITED SLIP (--- GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. 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>KFS0002944</b>	---	---
Sample Date	Client Info	<b>17 Aug 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>500	<b>▲ 621</b>	---	---
Chromium ppm ASTM D5185m	>10	<b>3</b>	---	---
Nickel ppm ASTM D5185m	>10	<b>1</b>	---	---
Titanium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>3</b>	---	---
Lead ppm ASTM D5185m	>25	<b>0</b>	---	---
Copper ppm ASTM D5185m	>100	<b>4</b>	---	---
Tin ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Vanadium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>42</b>	---	---
Barium ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum ppm ASTM D5185m		<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>5</b>	---	---
Magnesium ppm ASTM D5185m		<b>23</b>	---	---
Calcium ppm ASTM D5185m		<b>785</b>	---	---
Phosphorus ppm ASTM D5185m		<b>2004</b>	---	---
Zinc ppm ASTM D5185m		<b>265</b>	---	---
Sulfur ppm ASTM D5185m		<b>22852</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>75	<b>53</b>	---	---
Sodium ppm ASTM D5185m		<b>11</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>0</b>	---	---

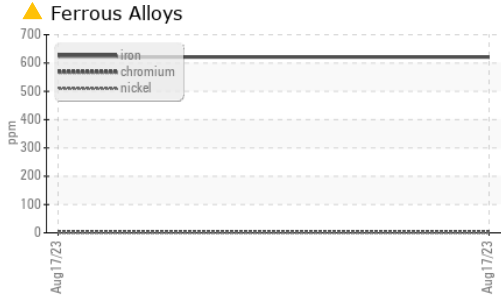
## VISUAL

method	limit/base	current	history1	history2
White Metal scalar *Visual	NONE	<b>NONE</b>	---	---
Yellow Metal scalar *Visual	NONE	<b>NONE</b>	---	---
Precipitate scalar *Visual	NONE	<b>NONE</b>	---	---
Silt scalar *Visual	NONE	<b>MODER</b>	---	---
Debris scalar *Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt scalar *Visual	NONE	<b>NONE</b>	---	---
Appearance scalar *Visual	NORML	<b>NORML</b>	---	---
Odor scalar *Visual	NORML	<b>NORML</b>	---	---
Emulsified Water scalar *Visual	>.2	<b>NEG</b>	---	---
Free Water scalar *Visual		<b>NEG</b>	---	---

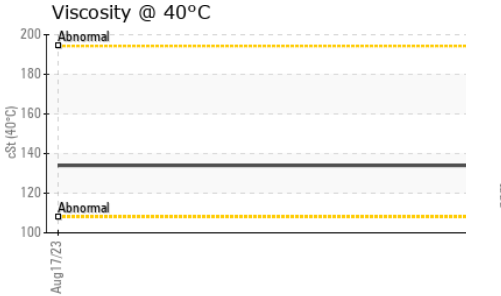
## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt ASTM D445		<b>134</b>	---	---

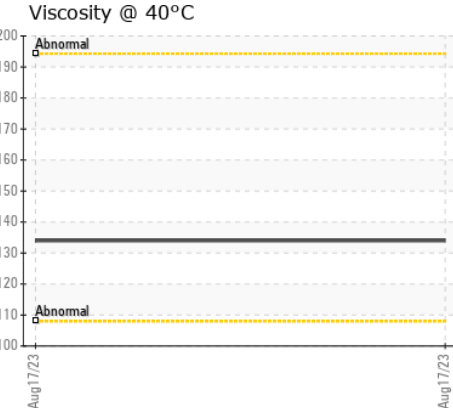
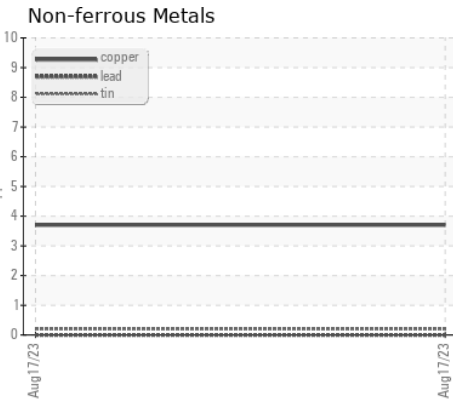
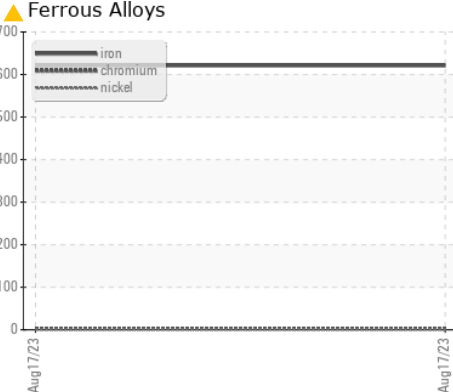
# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image



**GRAPHS**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KFS0002944      **Received** : 25 Aug 2023  
**Lab Number** : 05935027      **Diagnosed** : 28 Aug 2023  
**Unique Number** : 10620298      **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**GDN - BOBCAT OF NASHVILLE**  
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 LAVERGNE, TN  
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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)