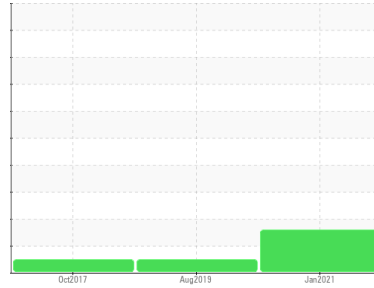




# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id  
**AG1135 (S/N 559136-2)**  
 Component  
**Gearbox**  
 Fluid  
**ARMORPLATE ISO 100 (21 GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

### 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>WC0391911</b>	WCI2323445	WCI1100129
Sample Date	Client Info	<b>20 Jan 2021</b>	14 Aug 2019	26 Oct 2017
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## 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 >200	<b>40</b>	24	20
Chromium	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	0
Nickel	ppm ASTM D5185m >15	<b>2</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185m >25	<b>2</b>	2	2
Lead	ppm ASTM D5185m >100	<b>0</b>	<1	0
Copper	ppm ASTM D5185m >200	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185m >25	<b>0</b>	0	2
Antimony	ppm ASTM D5185m	<b>0</b>	0	5
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>1</b>	<1	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>88</b>	96	94
Barium	ppm ASTM D5185m	<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185m	<b>129</b>	143	141
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	1
Magnesium	ppm ASTM D5185m	<b>1</b>	2	<1
Calcium	ppm ASTM D5185m	<b>12</b>	13	10
Phosphorus	ppm ASTM D5185m	<b>510</b>	573	514
Zinc	ppm ASTM D5185m	<b>24</b>	24	19
Sulfur	ppm ASTM D5185m	<b>7798</b>	8746	3522

## CONTAMINANTS

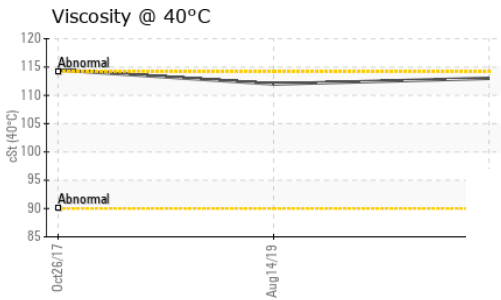
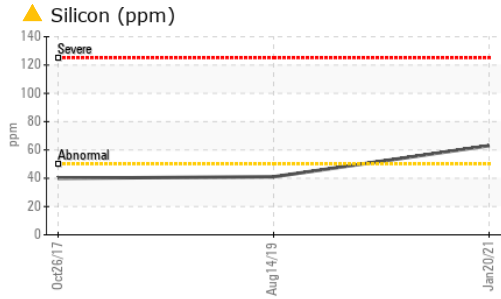
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>▲ 63</b>	41	40
Sodium	ppm ASTM D5185m	<b>1</b>	1	<1
Potassium	ppm ASTM D5185m >20	<b>2</b>	18	<1

## VISUAL

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

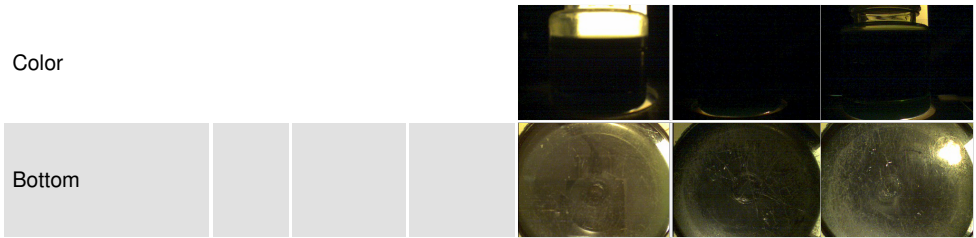


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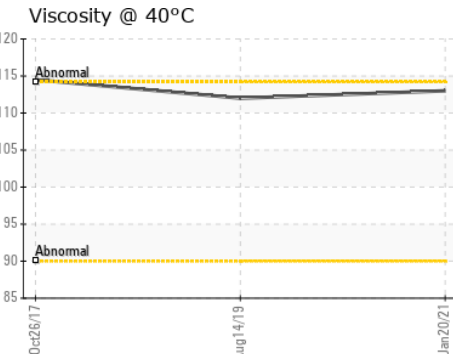
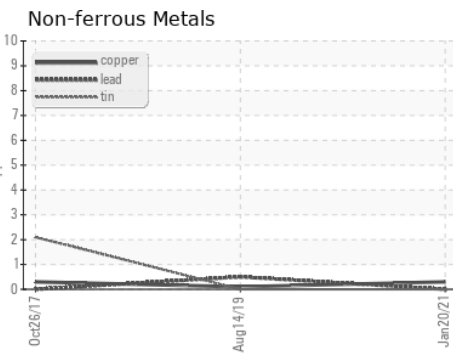
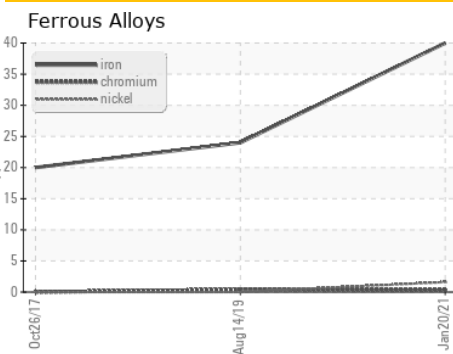


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>113</b>	112	114.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0391911 **Received** : 02 Feb 2021  
**Lab Number** : **05172676** **Diagnosed** : 03 Feb 2021  
**Unique Number** : 9347959 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 1

**ARKEMA INC**  
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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)