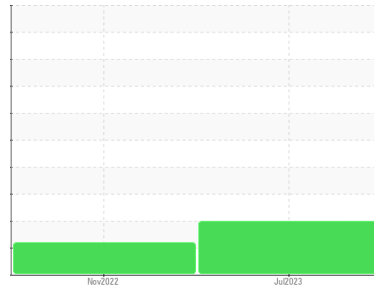




# PROBLEM SUMMARY

Sample Rating Trend



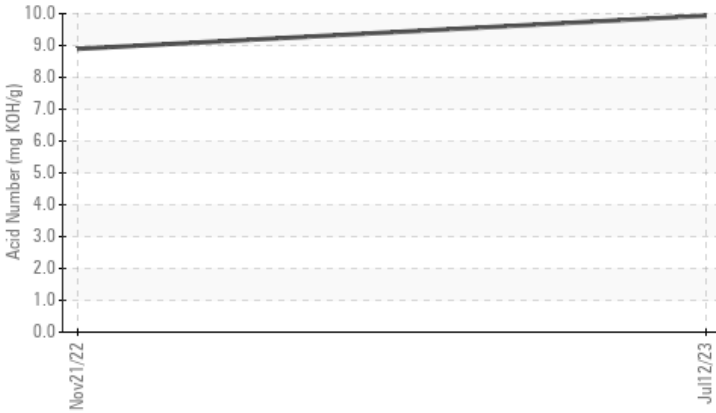
DEGRADATION



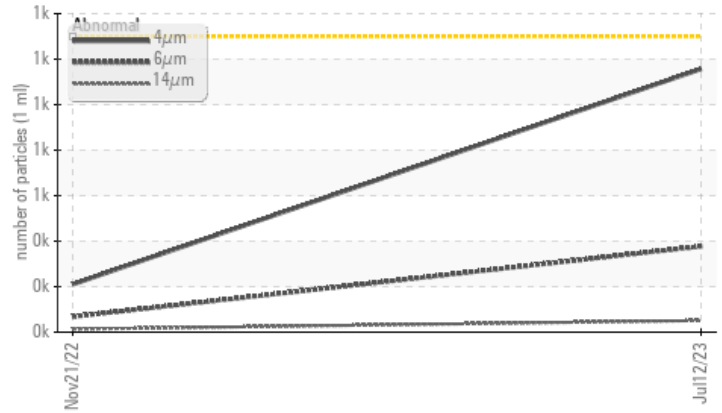
Machine Id  
**POUR/COOL TRIPLE PUMP**  
 Component  
**Hydraulic System**  
 Fluid  
**BENZ OIL ULTRA GUARD 552 (600 GAL)**

## COMPONENT CONDITION SUMMARY

▲ Acid Number



▲ Particle Trend



## RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status	ATTENTION	ATTENTION	---
Particles >6µm	▲ 377	68	---
Oil Cleanliness	▲ 17/16/13	15/13/11	---
Acid Number (AN) mg KOH/g	▲ 9.936	▲ 8.895	---

PrtFilter



Customer Id: DEELIN  
 Sample No.: PH0000245  
 Lab Number: 05934302  
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

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
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

21 Nov 2022 Diag: Angela Borella

### DEGRADATION



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit.

view report

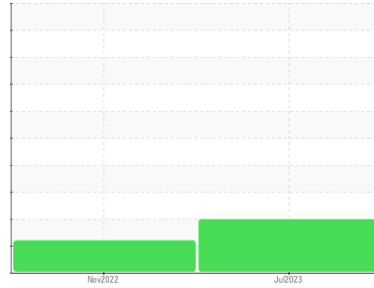




# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION



Machine Id  
**POUR/COOL TRIPLE PUMP**  
 Component  
**Hydraulic System**  
 Fluid  
**BENZ OIL ULTRA GUARD 552 (600 GAL)**

## DIAGNOSIS

### Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is above the recommended limit.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PH0000245</b>	PH0000218	---
Sample Date	Client Info	<b>12 Jul 2023</b>	21 Nov 2022	---
Machine Age	hrs	<b>0</b>	0	---
Oil Age	hrs	<b>11092</b>	7660	---
Oil Changed	Client Info	<b>Filtered</b>	Filtered	---
Sample Status		<b>ATTENTION</b>	ATTENTION	---

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	<b>5</b>	3	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>1</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >20	<b>13</b>	6	---
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>2</b>	4	---
Calcium	ppm	ASTM D5185m	<b>6</b>	35	---
Phosphorus	ppm	ASTM D5185m	<b>295</b>	262	---
Zinc	ppm	ASTM D5185m	<b>19</b>	25	---
Sulfur	ppm	ASTM D5185m	<b>974</b>	1337	---

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<b>3</b>	2	---
Sodium	ppm	ASTM D5185m	<b>5</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	---

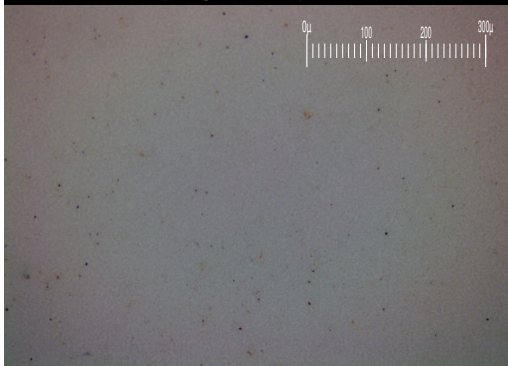
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	<b>1157</b>	210	---
Particles >6µm	ASTM D7647 >320	<b>▲ 377</b>	68	---
Particles >14µm	ASTM D7647 >80	<b>51</b>	13	---
Particles >21µm	ASTM D7647 >20	<b>18</b>	4	---
Particles >38µm	ASTM D7647 >4	<b>1</b>	1	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c) >17/15/13	<b>▲ 17/16/13</b>	15/13/11	---

## FLUID DEGRADATION

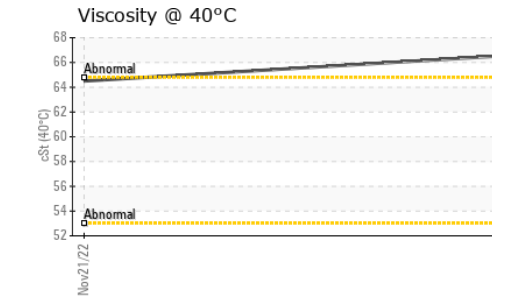
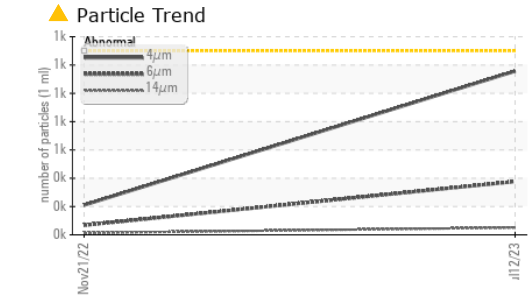
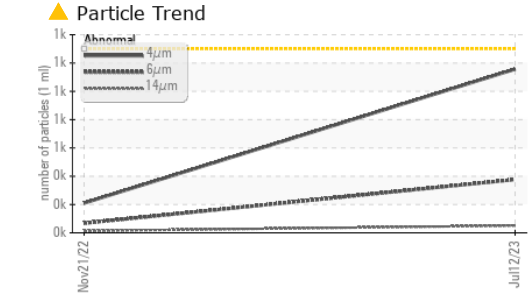
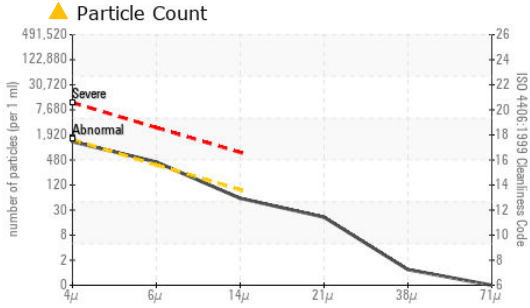
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>▲ 9.936</b>	▲ 8.895	---

Particle Filter (Magn: 200 x)





# OIL ANALYSIS REPORT



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PH0000245 **Received** : 24 Aug 2023  
**Lab Number** : 05934302 **Diagnosed** : 28 Aug 2023  
**Unique Number** : 10619573 **Diagnostician** : Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: PrtFilter )

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)

**DEETER FOUNDRY**  
 5945 N 70TH ST  
 LINCOLN, NE  
 US 68507  
 Contact: BRANDON KUHNKE  
 brandon.kuhnke@groupnei.com  
 T: (402)464-7466  
 F:

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	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	66.6	64.5	---

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

## GRAPHS

