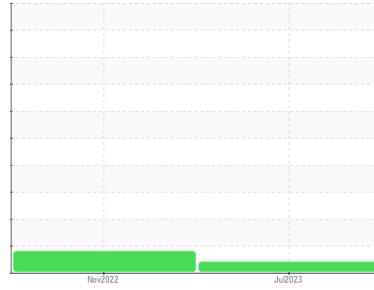




# PROBLEM SUMMARY

Machine Id  
**24-057**  
 Component  
**Hydraulic System**  
 Fluid  
**BENZ OIL ULTRA GUARD 552 (300 GAL)**

Sample Rating Trend



**VIS DEBRIS**



## COMPONENT CONDITION SUMMARY

No relevant graphs to display

## RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ATTENTION	---
Debris	scalar	*Visual	NONE	▲ MODER	NONE	---
PrtFilter						no image

Customer Id: DEELIN  
 Sample No.: PH0000239  
 Lab Number: 05934306  
 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
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS

21 Nov 2022 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. The filtration at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report





# OIL ANALYSIS REPORT

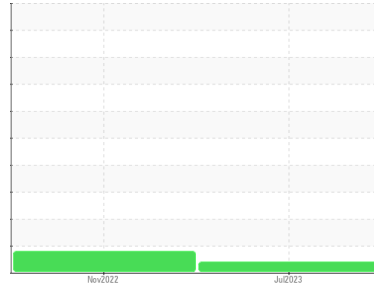
Sample Rating Trend

VIS DEBRIS

Machine Id  
**24-057**

Component  
**Hydraulic System**

Fluid  
**BENZ OIL ULTRA GUARD 552 (300 GAL)**



## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### Wear

All component wear rates are normal.

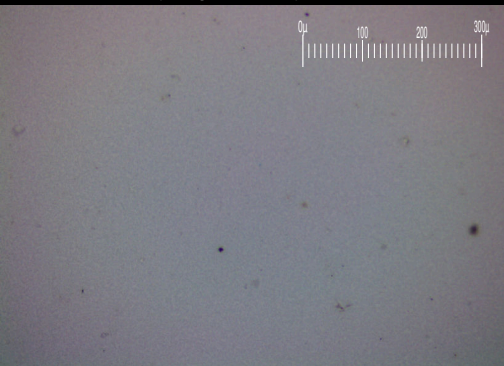
### Contamination

Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Particle Filter (Magn: 200 x)



## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PH0000239</b>	PH0000215	---
Sample Date	Client Info		<b>12 Jul 2023</b>	21 Nov 2022	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>11092</b>	60	---
Oil Changed	Client Info		<b>Filtered</b>	Filtered	---
Sample Status			<b>ABNORMAL</b>	ATTENTION	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>1</b>	3	---
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0	---
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>0</b>	0	---
Copper	ppm	ASTM D5185m >20	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</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>	3	---
Calcium	ppm	ASTM D5185m	<b>2</b>	4	---
Phosphorus	ppm	ASTM D5185m	<b>362</b>	353	---
Zinc	ppm	ASTM D5185m	<b>8</b>	4	---
Sulfur	ppm	ASTM D5185m	<b>982</b>	1248	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>2</b>	1	---
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	---

## FLUID CLEANLINESS

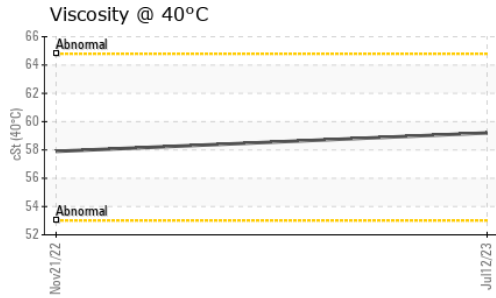
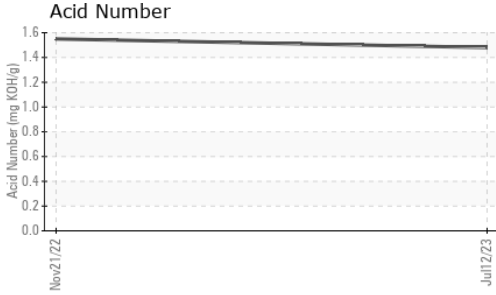
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	---	<b>▲ 1815</b>	---
Particles >6µm	ASTM D7647	>320	---	311	---
Particles >14µm	ASTM D7647	>80	---	44	---
Particles >21µm	ASTM D7647	>20	---	18	---
Particles >38µm	ASTM D7647	>4	---	2	---
Particles >71µm	ASTM D7647	>3	---	1	---
Oil Cleanliness	ISO 4406 (c)	>17/15/13	---	<b>▲ 18/15/13</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.48</b>	1.55	---



# OIL ANALYSIS REPORT



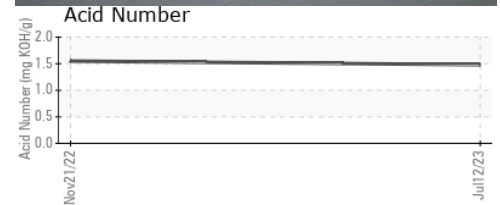
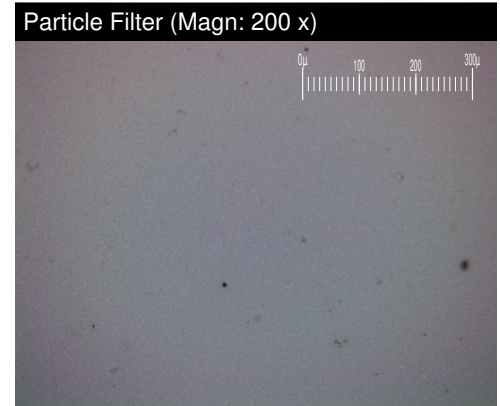
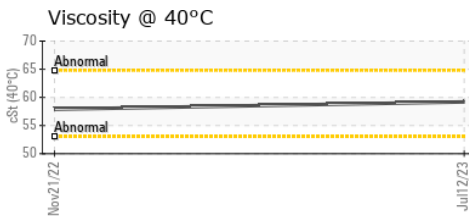
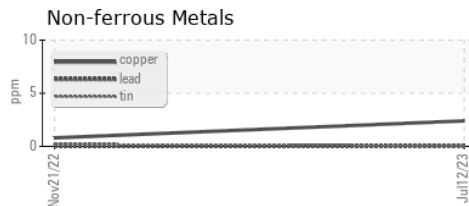
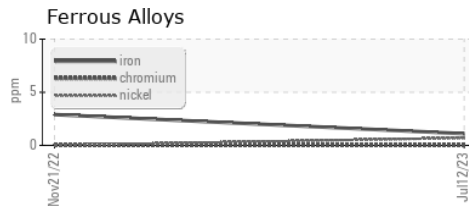
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	▲ MODER	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	59.2	57.9	---

### SAMPLE IMAGES

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

### GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : PH0000239 Received : 24 Aug 2023  
 Lab Number : 05934306 Diagnosed : 28 Aug 2023  
 Unique Number : 10619577 Diagnostician : Jonathan Hester  
 Test Package : PLANT ( Additional Tests: PrtFilter )

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)

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