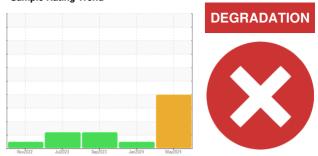


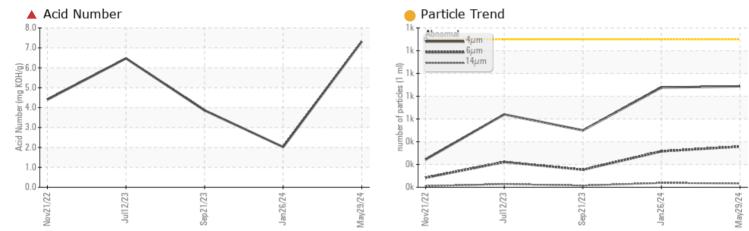


PROBLEM SUMMARY



Machine Id **24-029** Component **Hydraulic System** Fluid **BENZ OIL ULTRA GUARD 552 (150 GAL)**

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	NORMAL	ATTENTION	
Acid Number (AN)	mg KOH/g	ASTM D8045		A 7.314	2.02	3.86	
PrtFilter							

Customer Id: DEELIN Sample No.: PH0000242 Lab Number: 06208707 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

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



26 Jan 2024 Diag: Jonathan Hester

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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

21 Sep 2023 Diag: Doug Bogart

DEGRADATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) oil to establish a baseline. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit.



DEGRADATION

12 Jul 2023 Diag: Jonathan Hester

The oil is near the end of it's useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit.









OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

24-029 Component Hydraulic System Fluid BENZ OIL ULTRA GUARD 552 (150 GAL)

DIAGNOSIS

A Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

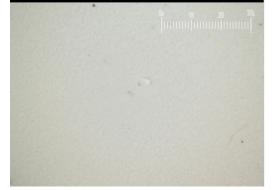
Contamination

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.

Particle Filter (Magn: 200 x)



SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0000242	PH0000237	PH0000293
Sample Date		Client Info		29 May 2024	26 Jan 2024	21 Sep 2023
Machine Age	hrs	Client Info		0	14164	0
Oil Age	hrs	Client Info		16132	14164	12124
Oil Changed		Client Info		Filtered	Not Changd	N/A
Sample Status				SEVERE	NORMAL	ATTENTION
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	5	5	2
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
_ead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	15	11	6
Tin	ppm	ASTM D5185m	>20	0	<1	<1
√anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Volybdenum	ppm	ASTM D5185m		0	<1	0
Vanganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	1
Calcium	ppm	ASTM D5185m		0	<1	3
Phosphorus	ppm	ASTM D5185m		355	341	311
Zinc	ppm	ASTM D5185m		10	3	4
Sulfur	ppm	ASTM D5185m		1426	1307	1174
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		2	<1	1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	887	876	500
Particles >6µm		ASTM D7647	>320	<mark> </mark> 358	316	154
Particles >14µm		ASTM D7647	>80	34	38	15
Particles >21µm		ASTM D7647	>20	8	10	5
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	— 17/16/12	17/15/12	16/14/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		7.314	2.02	3.86
51:48) Pov: 1	3 3		0.			

Report Id: DEELIN [WUSCAR] 06208707 (Generated: 06/22/2024 21:51:48) Rev: 1

Contact/Location: BRANDON KUHNKE - DEELIN



Ē

1

Ok Nov21/22

75

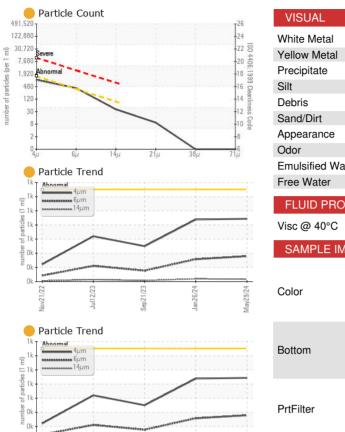
70 (40°C) -53 60

55

50 Vov21/22

Viscosity @ 40°C

OIL ANALYSIS REPORT



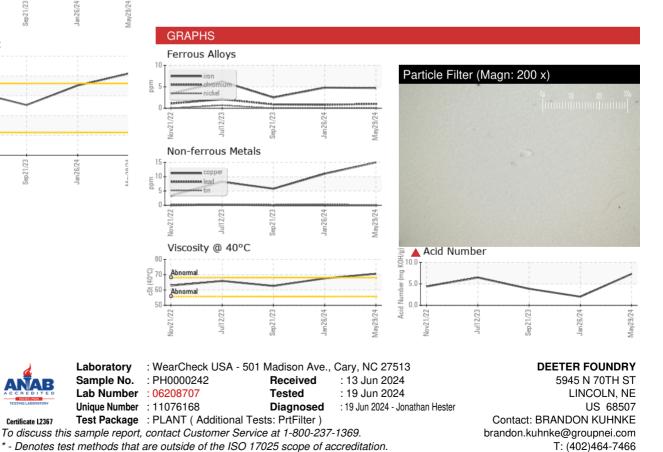
Sen21/23

Sen21/23

an 26/24

Jan 26/24

VISUAL		method	limit/base	current	history1	history2
Vhite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
Ddor	scalar	*Visual	NORML	NORML	NORML	NORML
mulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
ree Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D445		70.6	67.6	62.65
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter					•	



* - 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)

Certificate 12367

Contact/Location: BRANDON KUHNKE - DEELIN

F: