

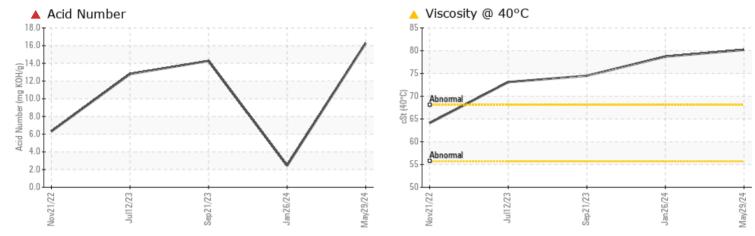
Sample Rating Trend





Machine Id **24-018** Component **Hydraulic System** Fluid **BENZ OIL ULTRA GUARD 552 (500 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	ABNORMAL	SEVERE	
Acid Number (AN)	mg KOH/g	ASTM D8045		16.28	2.45	1 4.28	
Visc @ 40°C	cSt	ASTM D445		A 80.2	A 78.7	A 74.5	
PrtFilter							

Customer Id: DEELIN Sample No.: PH0000243 Lab Number: 06208703 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

RECOMMENDE	O ACTIONS			
Action	Status	Date	Done By	Descriptio
Change Fluid			?	We recome already be
Resample			?	We recom

ion

nmend that you drain the oil from the component if this has not een done.

nmend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



26 Jan 2024 Diag: Jonathan Hester

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. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



view report

21 Sep 2023 Diag: Doug Bogart



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.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal.

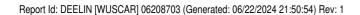




12 Jul 2023 Diag: Jonathan Hester

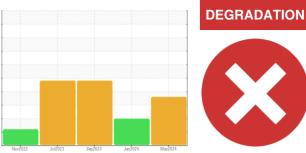
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is above the recommended limit. The oil viscosity is higher than normal.







OIL ANALYSIS REPORT



Machine Id

24-018 Component Hydraulic System Fluid BENZ OIL ULTRA GUARD 552 (500 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.

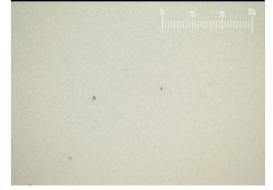
Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

Particle Filter (Magn: 200 x)

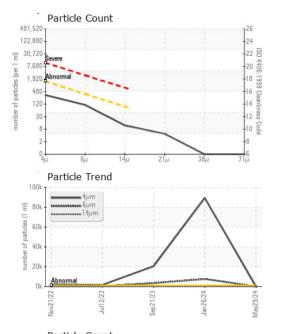


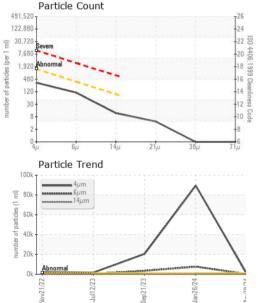
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0000243	PH0000244	PH0000346
Sample Date		Client Info		29 May 2024	26 Jan 2024	21 Sep 2023
Machine Age	hrs	Client Info		0	14164	0
Oil Age	hrs	Client Info		16132	14164	12124
Oil Changed		Client Info		Filtered	Filtered	Filtered
Sample Status				SEVERE	ABNORMAL	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	11	14	8
Chromium	ppm	ASTM D5185m	>20	0	<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	0	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	2	4	2
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	3	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	1	<1
Calcium	ppm	ASTM D5185m		2	10	6
Phosphorus	ppm	ASTM D5185m		359	356	322
Zinc	ppm	ASTM D5185m		26	28	14
Sulfur	ppm	ASTM D5185m		1296	1171	1007
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	3	3
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m	>20	0	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	286	▲ 89364	2 0485
Particles >6µm		ASTM D7647	>320	96	▲ 7617	▲ 3498
Particles >14µm		ASTM D7647	>80	10	1 06	79
Particles >21µm		ASTM D7647		4	18	14
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	15/14/10	▲ 24/20/14	22/19/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		16.28	2.45	▲ 14.28
						0

Report Id: DEELIN [WUSCAR] 06208703 (Generated: 06/22/2024 21:50:54) Rev: 1

Contact/Location: BRANDON KUHNKE - DEELIN

OIL ANALYSIS REPORT





VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow 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
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		▲ 80.2	▲ 78.7	▲ 74.5
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						
Bottom						
PrtFilter						

GRAPHS Ferrous Alloys Particle Filter (Magn: 200 x) 10 icke Sen21/23 Aay29/24 Vnv01/07 an 26/24 Non-ferrous Metals leadtin May29/24 CC/1Cvul Sep 21/23 an 26/24 Viscosity @ 40°C Acid Number 100 cSt (40°C) 80 60 Acid Nu 40 0.0 May29/24 -Jul12/23 Sep21/23 Jan 26/24 Jul12/23 Sep21/23 Nov21/22 Vov71/77 Jan 26/24 v29/24 **DEETER FOUNDRY** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : PH0000243 Received : 13 Jun 2024 5945 N 70TH ST Lab Number : 06208703 Tested : 19 Jun 2024 LINCOLN, NE Unique Number : 11076164 Diagnosed : 19 Jun 2024 - Jonathan Hester US 68507 Test Package : PLANT (Additional Tests: PrtFilter) Contact: BRANDON KUHNKE To discuss this sample report, contact Customer Service at 1-800-237-1369. brandon.kuhnke@groupnei.com

* - 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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Certificate 12367

Contact/Location: BRANDON KUHNKE - DEELIN

F:

T: (402)464-7466