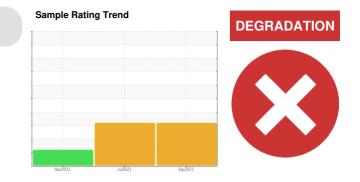


PROBLEM SUMMARY

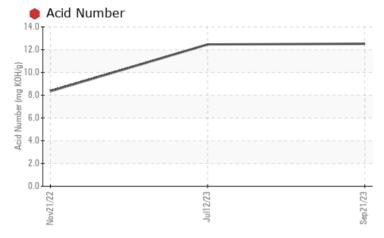


BIG BLUE HYDRAULIC UNIT

Hydraulic System

BENZ OIL ULTRA GUARD 552 (350 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			S	EVERE	SEVERE	ATTENTION	
Acid Number (AN)	mg KOH/g	ASTM D8045		12.52	12.46	▲ 8.351	
PrtFilter							

Customer Id: DEELIN Sample No.: PH0000294 Lab Number: 05962209 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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

RECOMMENDE	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



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 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.



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.





OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

X

BIG BLUE HYDRAULIC UNIT

Hydraulic System Fluid BENZ OIL ULTRA GUARD 552 (350 GAL)

DIAGNOSIS

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.

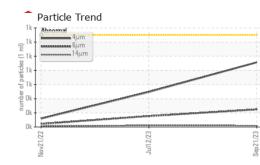
Fluid Condition

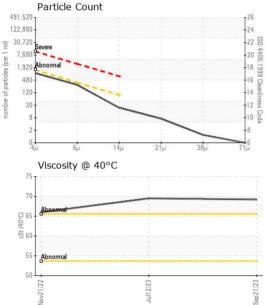
The AN level is above the recommended limit.

		No	v2022	Jul2023 Sep20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0000294	PH0000212	PH0000219
Sample Date		Client Info		21 Sep 2023	12 Jul 2023	21 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		12124	11092	16960
Oil Changed		Client Info		Filtered	Filtered	Filtered
Sample Status				SEVERE	SEVERE	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	8	8	6
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	1	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>20	6	7	2
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
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	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	1	3
Calcium	ppm	ASTM D5185m		6	2	6
Phosphorus	ppm	ASTM D5185m		270	289	294
Zinc	ppm	ASTM D5185m		7	11	8
Sulfur	ppm	ASTM D5185m		1213	969	1436
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	3	2
Sodium	ppm	ASTM D5185m		4	3	3
Potassium	ppm	ASTM D5185m	>20	<1	2	2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	913	495	119
Particles >6µm		ASTM D7647	>320	248	154	44
Particles >14µm		ASTM D7647	>80	20	23	12
Particles >21µm		ASTM D7647	>20	6	7	7
Particles >38µm		ASTM D7647	>4	1	0	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>17/15/13	17/15/11	16/14/12	14/13/11
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		12.52	12.46	▲ 8.351



OIL ANALYSIS REPORT





r of particles (1 ml) 1 k 1 k 1 k 1 k

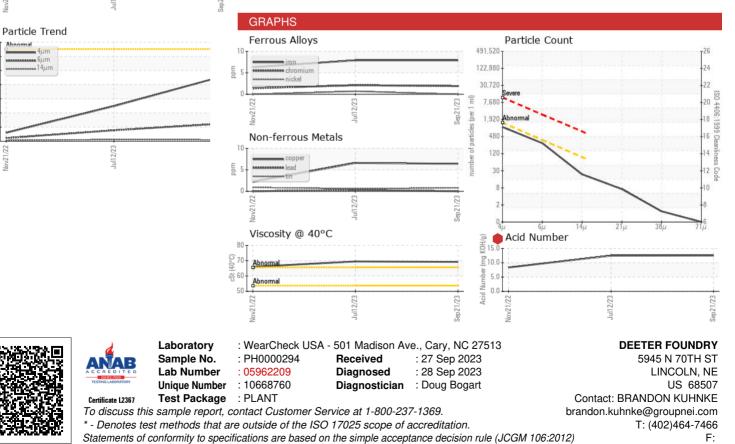
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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		69.2	69.5	66.0
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom						

PrtFilter



Contact/Location: BRANDON KUHNKE - DEELIN