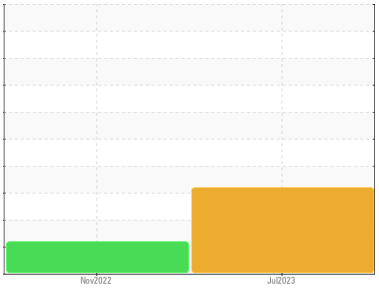
PROBLEM SUMMARY

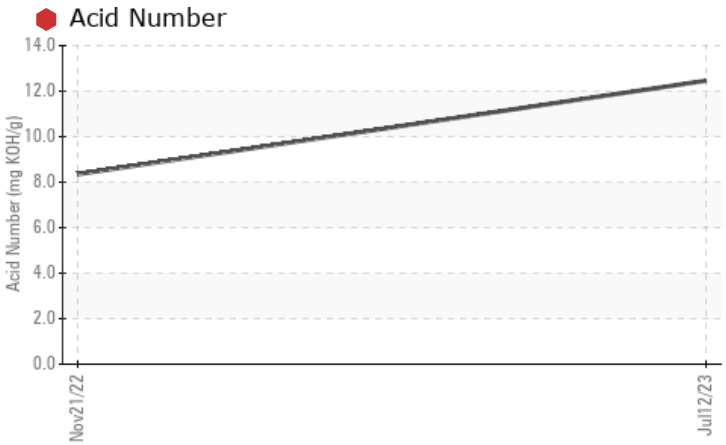
Sample Rating Trend



DEGRADATION

Machine Id
BIG BLUE HYDRAULIC UNIT
Component
Hydraulic System
Fluid
BENZ OIL ULTRA GUARD 552 (350 GAL)

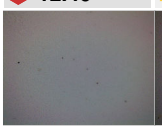
COMPONENT CONDITION SUMMARY



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				SEVERE	ATTENTION	---
Acid Number (AN)	mg KOH/g	ASTM D8045		12.46	8.351	---
PrtFilter						no image

Customer Id: DEELIN
Sample No.: PH0000212
Lab Number: 05934304
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

21 Nov 2022 Diag: Angela Borella

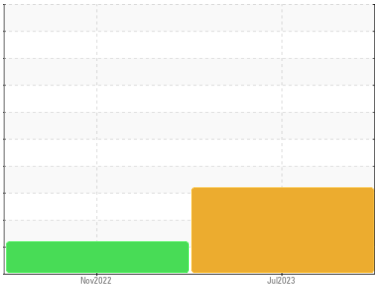
DEGRADATION

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
BIG BLUE HYDRAULIC UNIT
Component
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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PH0000212**	PH0000219	---
Sample Date		Client Info		**12 Jul 2023**	21 Nov 2022	---
Machine Age	hrs	Client Info		**0**	0	---
Oil Age	hrs	Client Info		**11092**	16960	---
Oil Changed		Client Info		**Filtered**	Filtered	---
Sample Status				**SEVERE**	ATTENTION	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**8**	6	---
Chromium	ppm	ASTM D5185m	>20	**2**	1	---
Nickel	ppm	ASTM D5185m	>20	**<1**	0	---
Titanium	ppm	ASTM D5185m		**0**	0	---
Silver	ppm	ASTM D5185m		**1**	0	---
Aluminum	ppm	ASTM D5185m	>20	**0**	<1	---
Lead	ppm	ASTM D5185m	>20	**<1**	0	---
Copper	ppm	ASTM D5185m	>20	**7**	2	---
Tin	ppm	ASTM D5185m	>20	**<1**	<1	---
Vanadium	ppm	ASTM D5185m		**<1**	<1	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

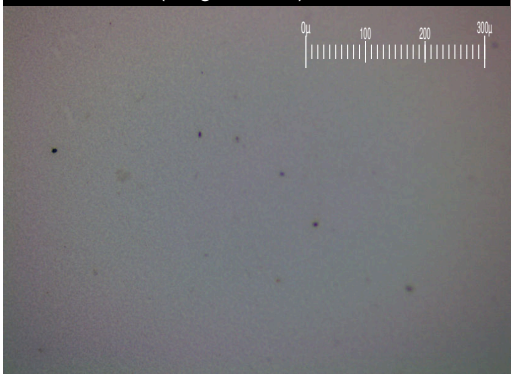
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	---
Barium	ppm	ASTM D5185m		**0**	<1	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**<1**	<1	---
Magnesium	ppm	ASTM D5185m		**1**	3	---
Calcium	ppm	ASTM D5185m		**2**	6	---
Phosphorus	ppm	ASTM D5185m		**289**	294	---
Zinc	ppm	ASTM D5185m		**11**	8	---
Sulfur	ppm	ASTM D5185m		**969**	1436	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**3**	2	---
Sodium	ppm	ASTM D5185m		**3**	3	---
Potassium	ppm	ASTM D5185m	>20	**2**	2	---

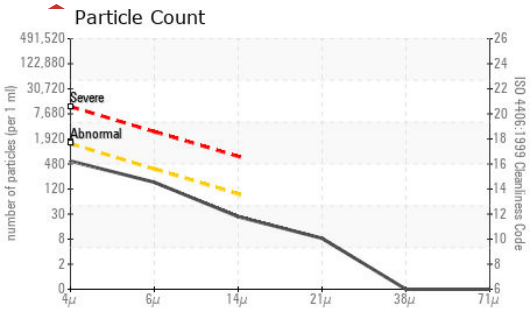
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	**495**	119	---
Particles >6µm		ASTM D7647	>320	**154**	44	---
Particles >14µm		ASTM D7647	>80	**23**	12	---
Particles >21µm		ASTM D7647	>20	**7**	7	---
Particles >38µm		ASTM D7647	>4	**0**	1	---
Particles >71µm		ASTM D7647	>3	**0**	1	---
Oil Cleanliness		ISO 4406 (c)	>17/15/13	**16/14/12**	14/13/11	---

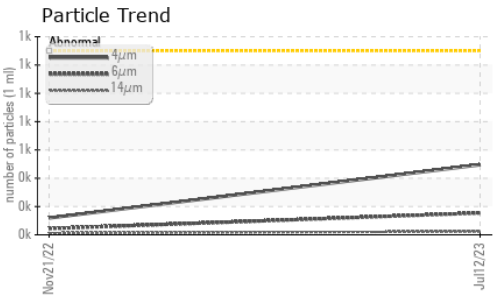
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**12.46**	8.351	---

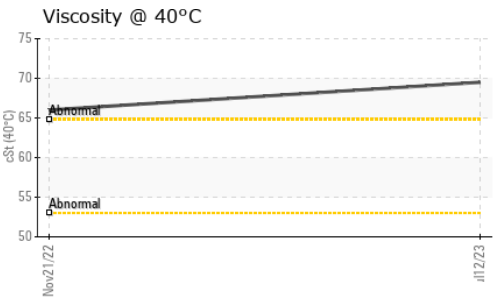
Particle Filter (Magn: 200 x)

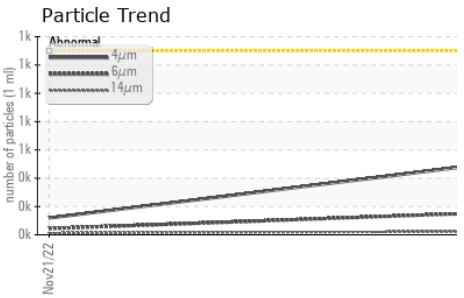


OIL ANALYSIS REPORT







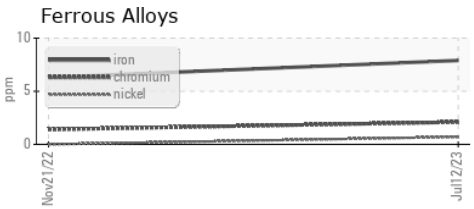


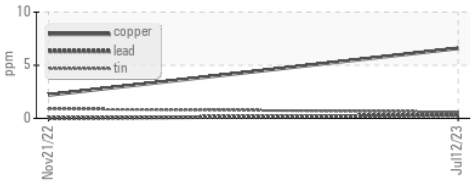
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt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

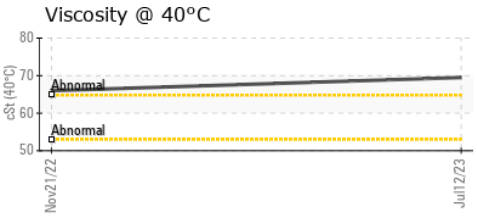
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**69.5**	66.0	---

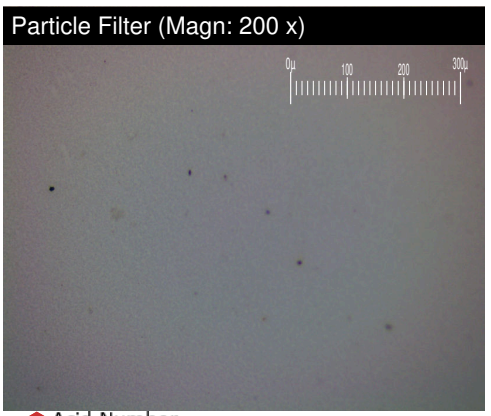
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					*no image*
Bottom					*no image*
PrtFilter					*no image*

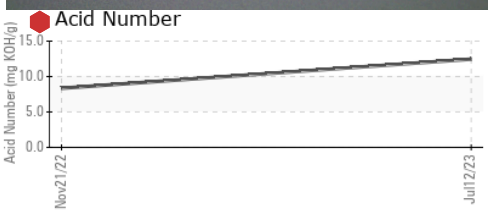
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0000212 **Received** : 24 Aug 2023
Lab Number : 05934304 **Diagnosed** : 28 Aug 2023
Unique Number : 10619575 **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)

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