

OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

BIG BLUE HYDRAULIC UNIT

Hydraulic System

BENZ OIL ULTRA GUARD 552 (350 GAL)

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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 oil viscosity is higher than normal. The AN level is acceptable for this fluid.

		Nov2022	Jui2023	Sep.2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0000236	PH0000294	PH0000212
Sample Date		Client Info		26 Jan 2024	21 Sep 2023	12 Jul 2023
Machine Age	hrs	Client Info		14164	0	0
Oil Age	hrs	Client Info		14164	12124	11092
Oil Changed		Client Info		Not Changd	Filtered	Filtered
Sample Status				ATTENTION	SEVERE	SEVERE

Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	10	8	8
Chromium	ppm	ASTM D5185m	>20	3	2	2
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	1
Aluminum	ppm	ASTM D5185m	>20	0	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	11	6	7
Tin	ppm	ASTM D5185m	>20	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<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	0

ADDITIVEO					
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	0	<1	1
Calcium	ppm	ASTM D5185m	<1	6	2
Phosphorus	ppm	ASTM D5185m	323	270	289
Zinc	ppm	ASTM D5185m	4	7	11
Sulfur	ppm	ASTM D5185m	1433	1213	969

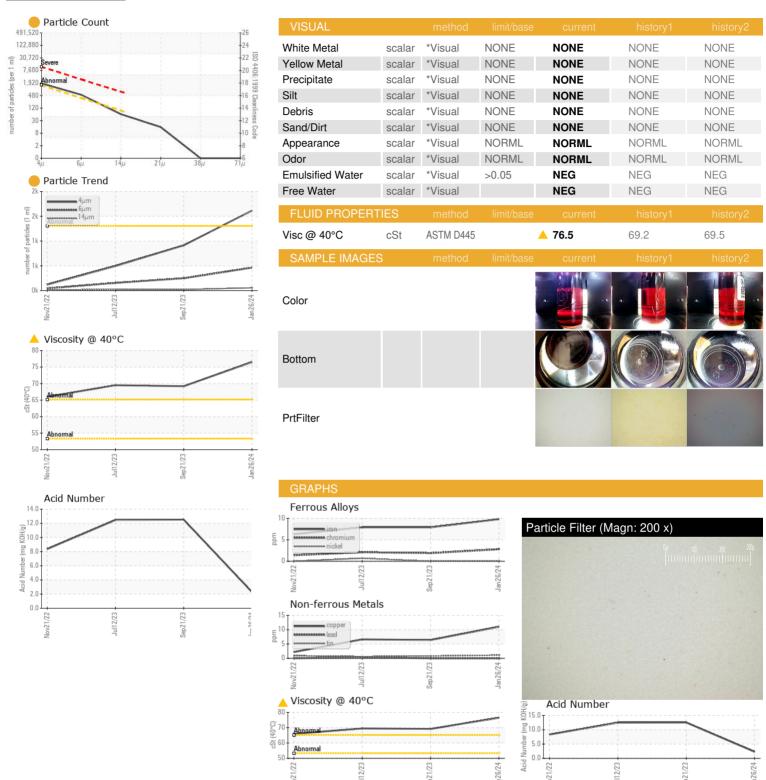
Sulfur	ppm	ASTM D5185m		1433	1213	969
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	3	3
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	0	<1	2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	1613	913	495
Particles >6µm		ASTM D7647	>320	463	248	154
Particles >14µm		ASTM D7647	>80	54	20	23
Particles >21μm		ASTM D7647	>20	13	6	7
Particles >38μm		ASTM D7647	>4	0	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/15/13	1 8/16/13	17/15/11	16/14/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.29	1 2.52	1 2.46



12.52



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Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Unique Number: 10939053

: PH0000236 Received : 06124902 **Tested**

Diagnosed 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. 5945 N 70TH ST

LINCOLN, NE US 68507

DEETER FOUNDRY

Contact: BRANDON KUHNKE brandon.kuhnke@groupnei.com T: (402)464-7466

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 21 Mar 2024

: 27 Mar 2024

: 27 Mar 2024 - Jonathan Hester