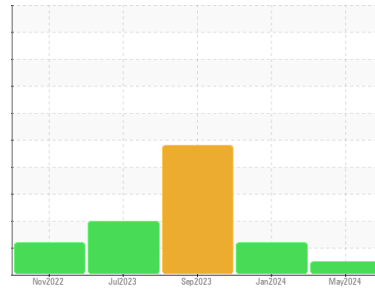




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
POUR/COOL TRIPLE PUMP
 Component
Hydraulic System
 Fluid
BENZ OIL ULTRA GUARD 552 (600 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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 acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PH0000310	PH0000235	PH0000344
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		672	14164	12124
Oil Changed	Client Info			Changed	Filtered	N/A
Sample Status				NORMAL	ATTENTION	SEVERE

CONTAMINATION		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	<1	4	3
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	6	15	12
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		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	2
Calcium	ppm	ASTM D5185m		0	1	5
Phosphorus	ppm	ASTM D5185m		360	304	265
Zinc	ppm	ASTM D5185m		20	12	12
Sulfur	ppm	ASTM D5185m		1492	1276	1133

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	2
Sodium	ppm	ASTM D5185m		<1	4	5
Potassium	ppm	ASTM D5185m	>20	0	0	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	514	● 1650	▲ 4495	
Particles >6µm	ASTM D7647	>320	192	● 582	▲ 1331	
Particles >14µm	ASTM D7647	>80	28	● 41	● 104	
Particles >21µm	ASTM D7647	>20	7	● 10	● 19	
Particles >38µm	ASTM D7647	>4	1	● 0	● 0	
Particles >71µm	ASTM D7647	>3	0	● 0	● 0	
Oil Cleanliness	ISO 4406 (c)	>17/15/13	16/15/12	● 18/16/13	▲ 19/18/14	

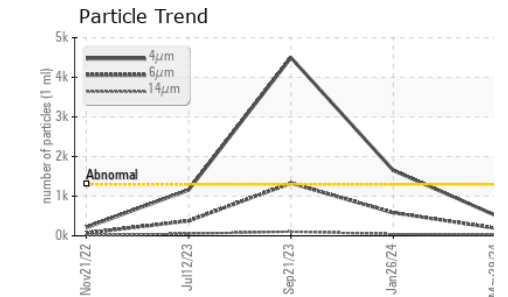
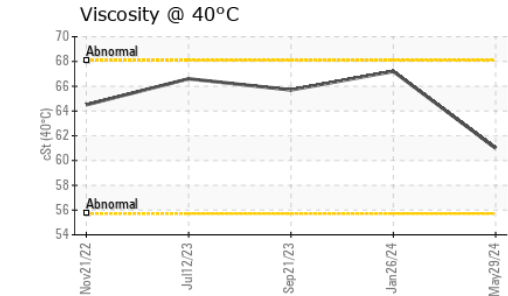
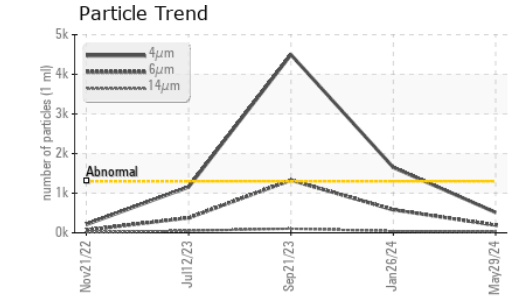
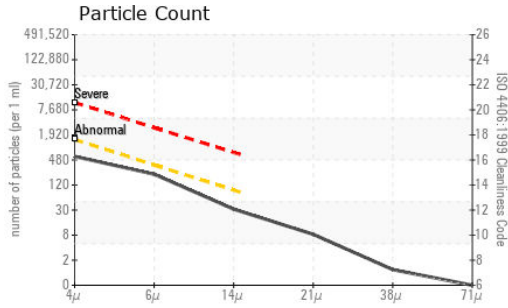
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		4.03	1.84	▲ 10.87

Particle Filter (Magn: 200 x)





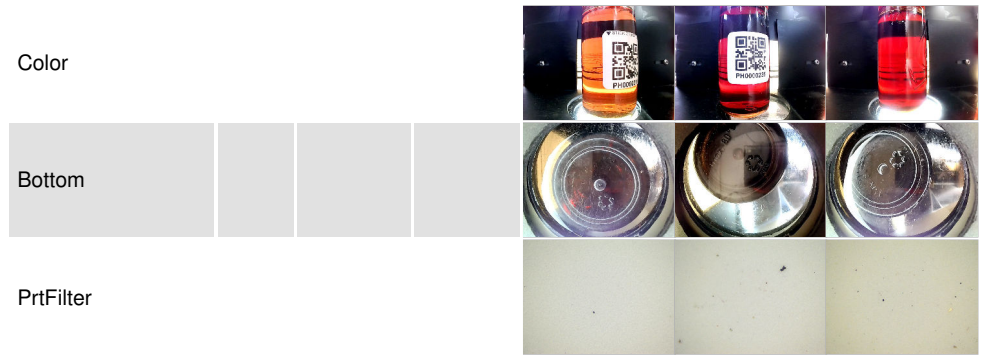
OIL ANALYSIS REPORT



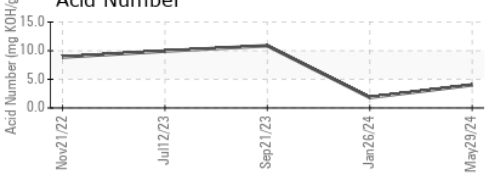
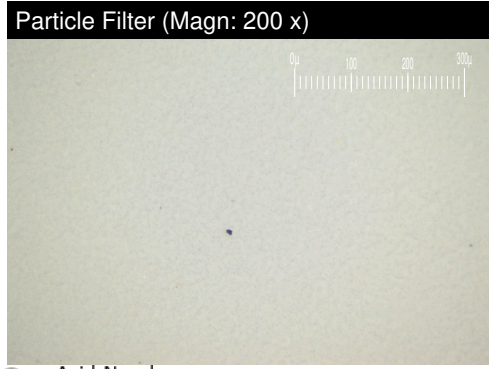
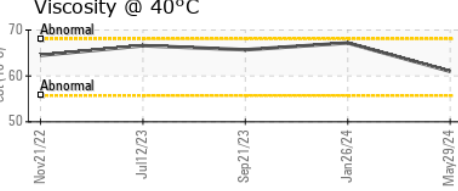
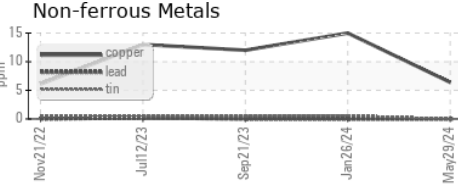
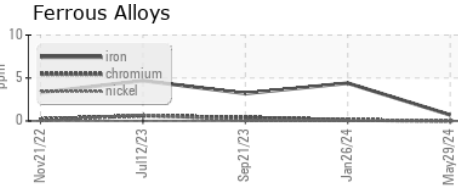
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	61.0	67.2	65.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0000310 **Received** : 13 Jun 2024
Lab Number : 06208706 **Tested** : 19 Jun 2024
Unique Number : 11076167 **Diagnosed** : 19 Jun 2024 - Jonathan Hester
Test Package : PLANT (Additional Tests: PrtFilter)

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

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)