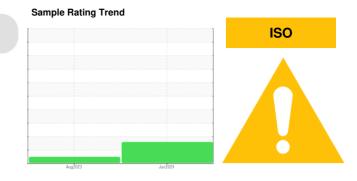


OIL ANALYSIS REPORT

Bronx Zoo ZOO CENTER SMALL UNIT

Hydraulic System

PHILLIPS 66 Powerflow NZ AW46 (10 GAL)



DIAGNOSIS

Recommendation

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.

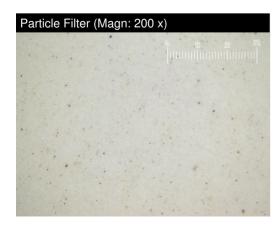
Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

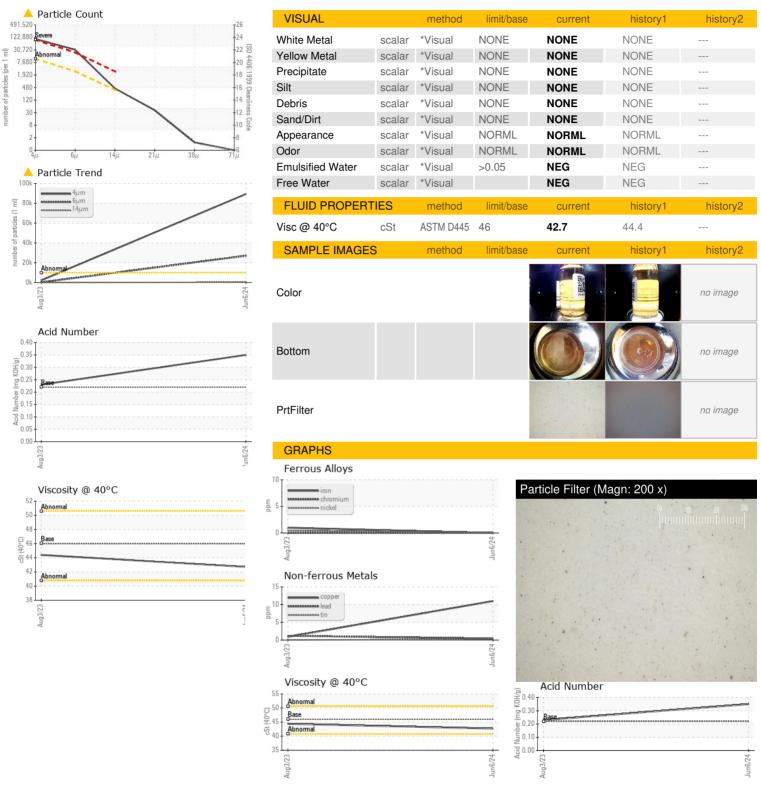
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0003489	PH0000355	
Sample Date		Client Info		06 Jun 2024	03 Aug 2023	
Machine Age	mths	Client Info		0	0	
Oil Age	mths	Client Info		18	0	
Oil Changed		Client Info		Filtered	N/A	
Sample Status				ABNORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	1	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>20	0	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		<1	1	
Aluminum	ppm	ASTM D5185m	>20	0	0	
Lead	ppm	ASTM D5185m	>20	<1	1	
Copper	ppm	ASTM D5185m	>20	11	<1	
Tin	ppm	ASTM D5185m	>20	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		1	0	
Calcium	ppm	ASTM D5185m		39	42	
Phosphorus	ppm	ASTM D5185m		204	157	
Zinc	ppm	ASTM D5185m		215	137	
Sulfur	ppm	ASTM D5185m		1869	1958	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	0	
Sodium	ppm	ASTM D5185m		2	0	
Potassium	ppm	ASTM D5185m	>20	2	<1	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	89353	2202	
Particles >6µm		ASTM D7647	>2500	27088	221	
Particles >14µm		ASTM D7647	>320	▲ 381	25	
Particles >21µm		ASTM D7647	>80	35	9	
Particles >38µm		ASTM D7647	>20	1	0	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>4</u> 24/22/16	18/15/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2





OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06204563 Unique Number : 11072024

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PH0003489 Received

: 10 Jun 2024 **Tested** Diagnosed

: 12 Jun 2024 : 13 Jun 2024 - Jonathan Hester

FAIRFIELD, NJ US 07004 Contact: CUSTOMER SERVICE

22 AUDREY PLACE

PHI PROGRESSIVE HYDRAULICS INC

Test Package: PLANT (Additional Tests: PrtFilter) CUSTOMERSERVICE@PHIONLINE.COM 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)

Report Id: PHIFAINJ [WUSCAR] 06204563 (Generated: 07/19/2024 16:39:25) Rev: 2

Submitted By: ANTHONY RICCIARDI

T:

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