

Sample Rating Trend



Area Bronx Zoo Machine Id CONGO

Hydraulic System

PHILLIPS 66 Powerflow NZ AW46 (40 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

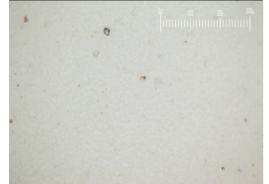
Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

Particle Filter (Magn: 200 x)



Report Id: PHIFAINJ [WUSCAR] 06204566 (Generated: 07/19/2024 16:33:49) Rev: 1

Aughters current history1 history2

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH0003487	PH0000354	
Sample Date		Client Info		06 Jun 2024	23 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				ATTENTION	NORMAL	
CONTAMINATION	N	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	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	1	
Aluminum	ppm	ASTM D5185m	>20	0	0	
Lead	ppm	ASTM D5185m	>20	0	<1	
Copper	ppm	ASTM D5185m	>20	0	<1	
Tin	ppm	ASTM D5185m	>20	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	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		3	3	
Calcium	ppm	ASTM D5185m		25	21	
Phosphorus	ppm	ASTM D5185m		88	93	
Zinc	ppm	ASTM D5185m		77	74	
Sulfur	ppm	ASTM D5185m		354	51	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	
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	e 14588	3793	
Particles >6µm		ASTM D7647	>2500	<mark>)</mark> 3272	647	
Particles >14µm		ASTM D7647	>320	149	46	
Particles >21µm		ASTM D7647	>80	24	11	
Particles >38µm		ASTM D7647	>20	1	1	
Particles >71µm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	e 21/19/14	19/17/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.22	0.13	0.13	

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491.52 122 88

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umber of particles (per 1

7 68

1.92 48

120

30

8

14 Î

12

s 10k 8k 8k 8k

0.2

(B/HO) E0.15 e 0.10

90.0 g 0.00

52

50 48

() 46

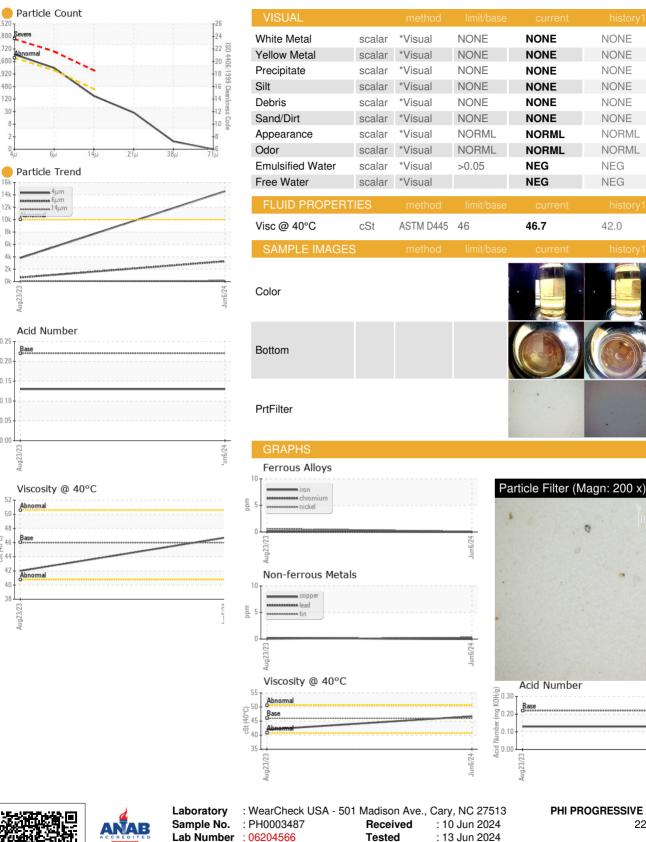
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40

38. Aug23/23

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OIL ANALYSIS REPORT



PHI PROGRESSIVE HYDRAULICS INC 22 AUDREY PLACE FAIRFIELD, NJ US 07004 Contact: CUSTOMER SERVICE CUSTOMERSERVICE@PHIONLINE.COM T:

NONE

NONE

NONE

NONE

NONE

NONE

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NORML

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NEG

42.0

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no image

no image

no image

Report Id: PHIFAINJ [WUSCAR] 06204566 (Generated: 07/19/2024 16:33:49) Rev: 1

Certificate 12367

Unique Number : 11072027

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.

Diagnosed

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

: 13 Jun 2024 - Jonathan Hester

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