

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **GOODYEAR AKRON TEST 84**

**Hydraulic System** 

PHILLIPS 66 Powerflow NZ AW46 (--- GAL)

## DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

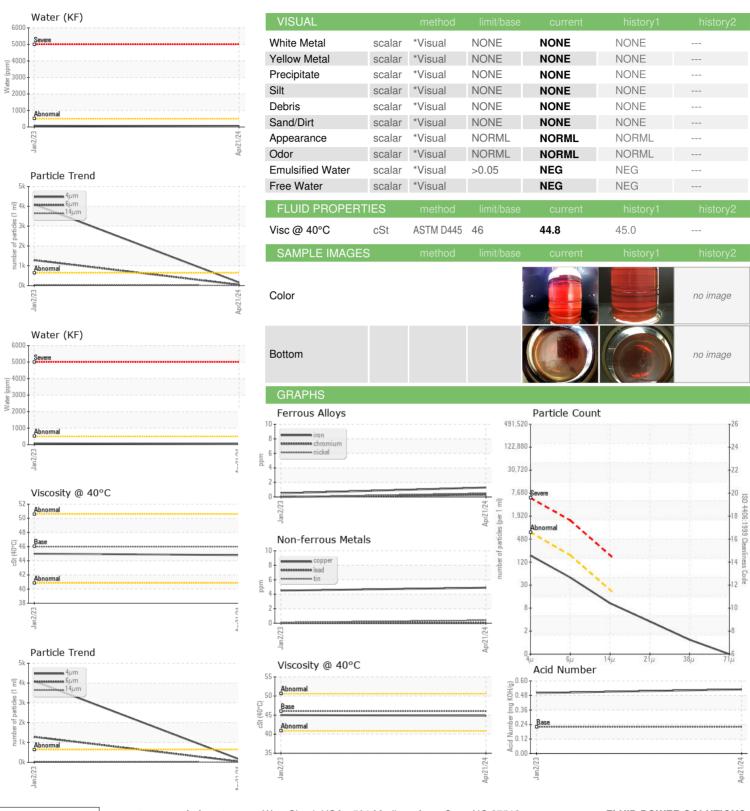
### **Fluid Condition**

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

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)			Jan 2023	Apr2024		
CAMBLE INFORM	MATION	method	limit/bass	ourrent.	historyt	hiotom/0
SAMPLE INFORM	IATION		limit/base	current	history1	history2
Sample Number		Client Info		ST46275	ST44227	
Sample Date		Client Info		21 Apr 2024	02 Jan 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	1	<1	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>20	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	2	0	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	5	4	
Tin	ppm	ASTM D5185m	>20	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	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		<1	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		1	0	
Calcium	ppm	ASTM D5185m		31	25	
Phosphorus	ppm	ASTM D5185m		470	393	
Zinc	ppm	ASTM D5185m		417	329	
Sulfur	ppm	ASTM D5185m		1256	1223	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	<1	
Sodium	ppm	ASTM D5185m		6	6	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304	>0.05	0.005	0.007	
ppm Water	ppm	ASTM D6304	>500	52	76.8	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	158	<b>4</b> 093	
Particles >6µm		ASTM D7647	>160	42	<u>▲</u> 1284	
Particles >14μm		ASTM D7647	>20	9	<b>▲</b> 39	
Particles >21µm		ASTM D7647	>4	3	<b>4</b> 9	
Particles >38µm		ASTM D7647	>3	1	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>16/14/11	14/13/10	▲ 19/17/12	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.22	0.53	0.50	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number

: ST46275 : 06155976 Unique Number : 10991399

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024 **Tested** : 23 Apr 2024

Diagnosed : 23 Apr 2024 - Wes Davis

Test Package : IND 2 ( Additional Tests: KF ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

**FLUID POWER SOLUTIONS** 

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