

### **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

Machine Id

# **GOODYEAR AKRON TEST 1**

Hydraulic System

PHILLIPS 66 Powerflow NZ AW46 (--- GAL)

#### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

#### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

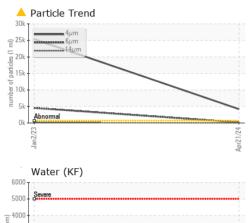
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102 WES	I					
			Jan2023	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST46360	ST44375	
Sample Date		Client Info		21 Apr 2024	02 Jan 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	<1	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>20	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
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	2	<1	
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	
Volybdenum	ppm	ASTM D5185m		<1	0	
Vanganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		4	<1	
Calcium	ppm	ASTM D5185m		83	73	
Phosphorus	ppm	ASTM D5185m		510	437	
Zinc	ppm	ASTM D5185m		675	531	
Sulfur	ppm	ASTM D5185m		1381	1289	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	
Sodium	ppm	ASTM D5185m		<1	1	
Potassium	ppm	ASTM D5185m	>20	1	0	
Water	%	ASTM D6304	>0.05	0.004	0.005	
ppm Water	ppm	ASTM D6304	>500	41	56.9	
FLUID CLEANLIN	VESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	<b>4198</b>	▲ 25389	
Particles >6µm		ASTM D7647	>160	<mark> </mark> 186	<b>4</b> 554	
Particles >14µm		ASTM D7647	>20	13	<b>1</b> 25	
Particles >21µm		ASTM D7647	>4	4	<b>a</b> 20	
Particles >38µm		ASTM D7647	>3	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>16/14/11	<b>1</b> 9/15/11	▲ 22/19/14	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.22	0.53	0.41	
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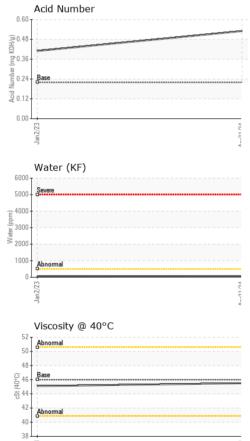
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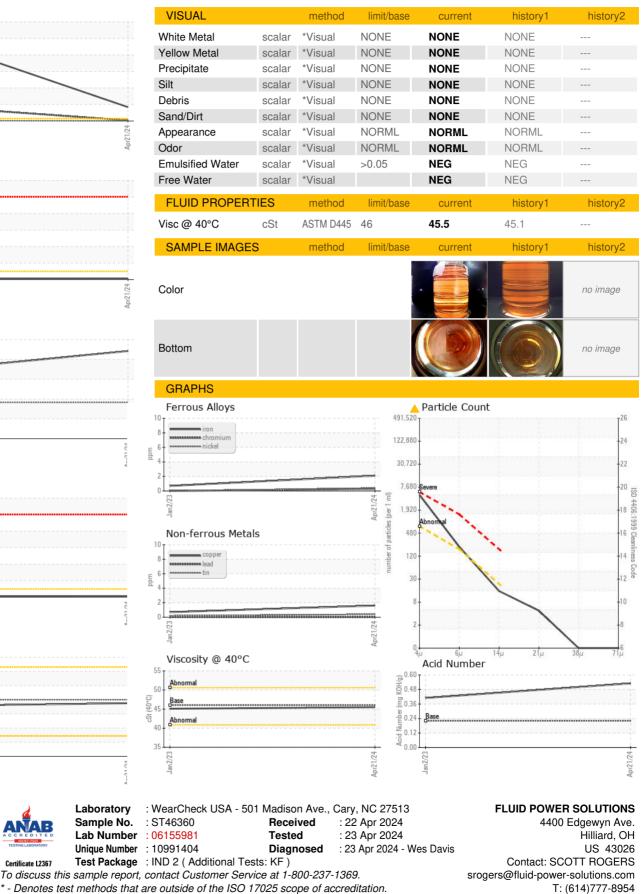


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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: FLUHIL [WUSCAR] 06155981 (Generated: 04/23/2024 12:37:20) Rev: 1

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