

**WEAR**



Machine Id  
**GOODYEAR AKRON TEST GDS**  
 Component  
**Hydraulic System**  
 Fluid  
**PHILLIPS 66 MEGAFLOW 68 (--- GAL)**

**DIAGNOSIS**

**▲ Recommendation**

We recommend you service the filters on this component. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

**▲ Wear**

The copper level is abnormal. All other 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>ST46260</b>	ST44370	---
Sample Date	Client Info			<b>21 Apr 2024</b>	02 Jan 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	0	---
Chromium	ppm	ASTM D5185m	>20	<1	0	---
Nickel	ppm	ASTM D5185m	>20	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	0	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>20	<b>▲ 48</b>	<b>▲ 49</b>	---
Tin	ppm	ASTM D5185m	>20	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		<1	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<1	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m		<1	0	---
Calcium	ppm	ASTM D5185m		<b>66</b>	61	---
Phosphorus	ppm	ASTM D5185m		<b>528</b>	461	---
Zinc	ppm	ASTM D5185m		<b>663</b>	541	---
Sulfur	ppm	ASTM D5185m		<b>1720</b>	1626	---

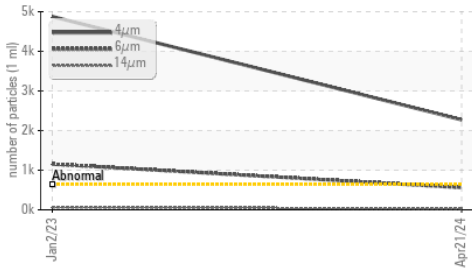
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Sodium	ppm	ASTM D5185m		<1	1	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	---
Water	%	ASTM D6304	>0.05	<b>0.003</b>	0.012	---
ppm Water	ppm	ASTM D6304	>500	<b>30</b>	129.6	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	<b>▲ 2272</b>	<b>▲ 4878</b>	---
Particles >6µm		ASTM D7647	>160	<b>▲ 560</b>	<b>▲ 1153</b>	---
Particles >14µm		ASTM D7647	>20	<b>▲ 32</b>	<b>▲ 59</b>	---
Particles >21µm		ASTM D7647	>4	<b>▲ 8</b>	<b>▲ 10</b>	---
Particles >38µm		ASTM D7647	>3	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>16/14/11	<b>▲ 18/16/12</b>	<b>▲ 19/17/13</b>	---

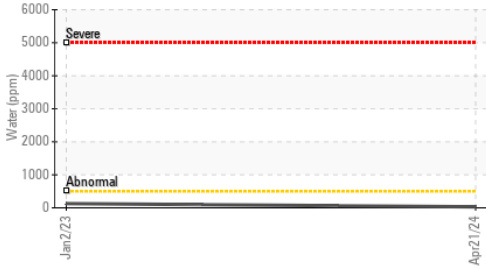
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.44</b>	0.41	---

# OIL ANALYSIS REPORT

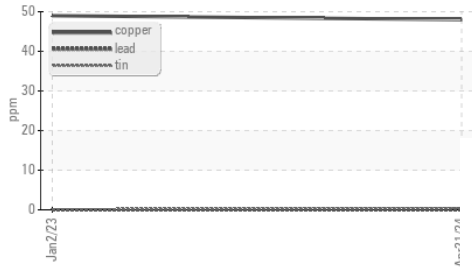
**▲ Particle Trend**



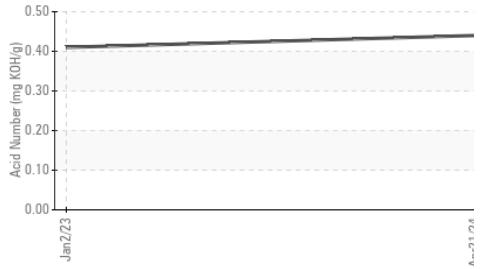
**Water (KF)**



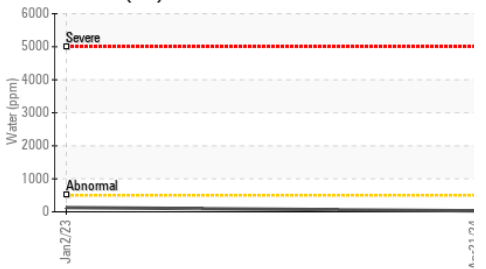
**▲ Non-ferrous Metals**



**Acid Number**



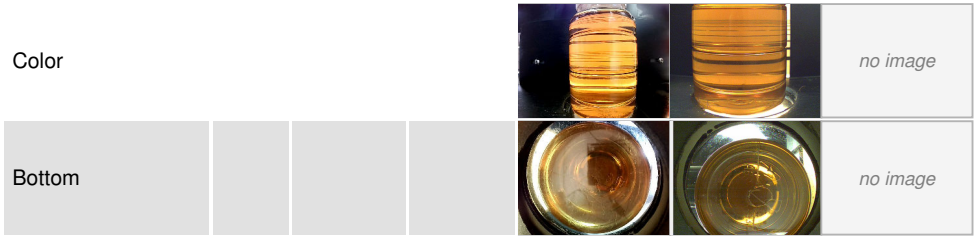
**Water (KF)**



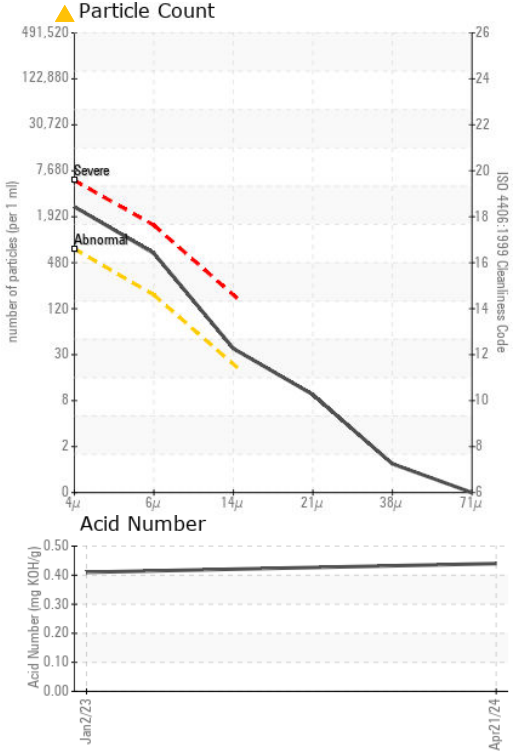
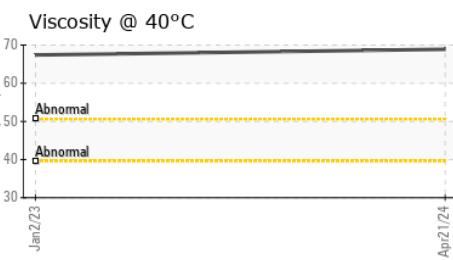
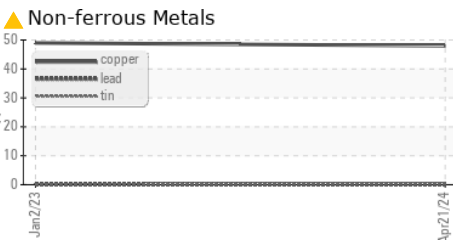
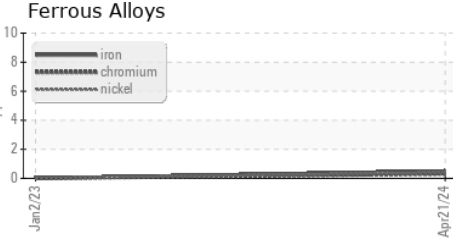
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	VLITE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>68.9</b>	67.4	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ST46260  
**Lab Number** : 06155987  
**Unique Number** : 10991410  
**Test Package** : IND 2 ( Additional Tests: KF )  
**Received** : 22 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 24 Apr 2024 - Jonathan Hester

**FLUID POWER SOLUTIONS**  
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