



A Y2K Fluid Power Brand

# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**SH-1**  
 Component  
**Hydraulic System**  
 Fluid  
**DURAGARD AW 46 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

## WEAR

All component wear rates are normal.

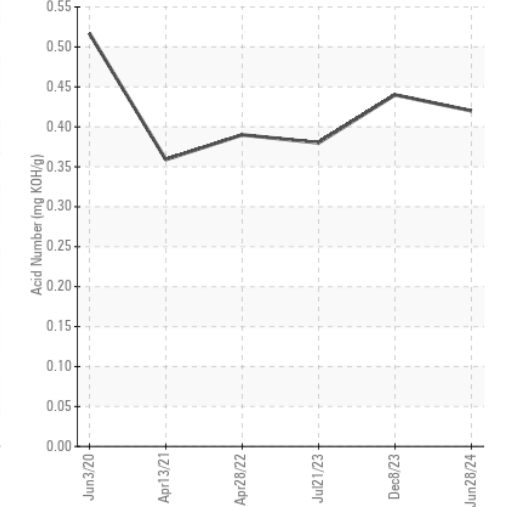
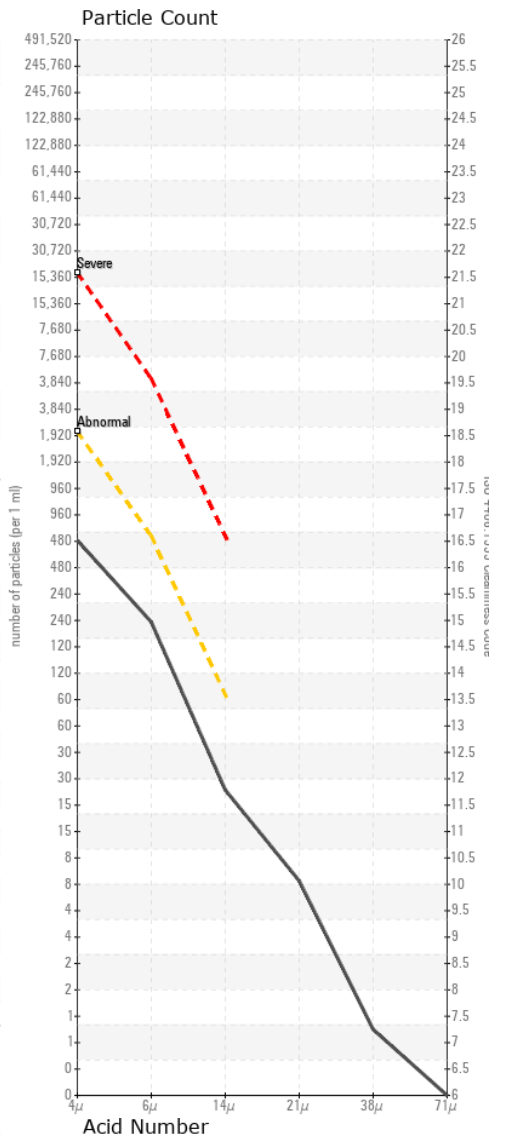
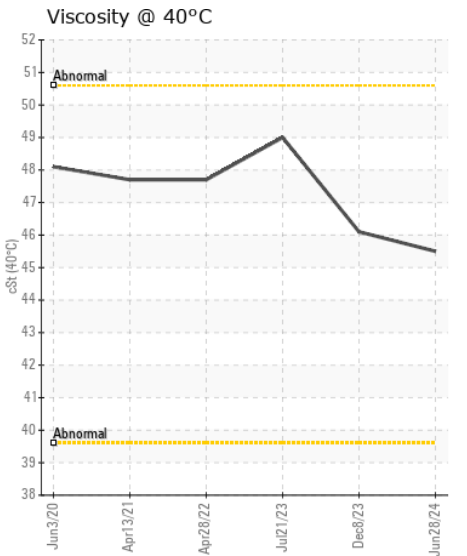
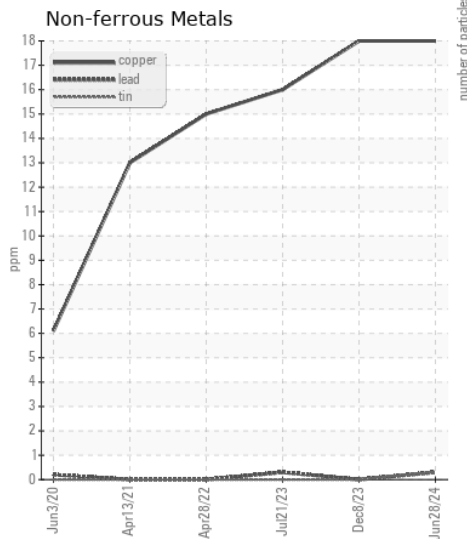
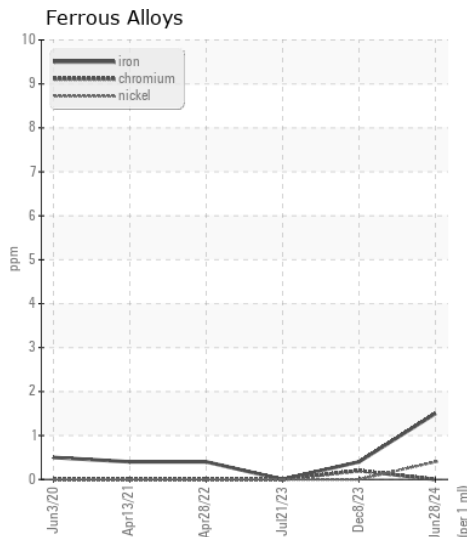
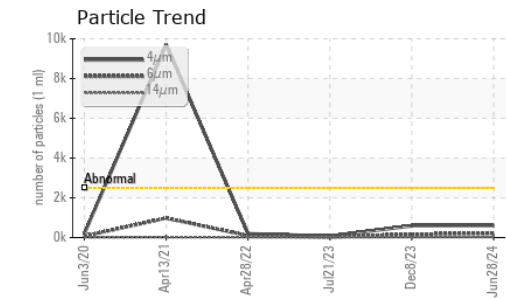
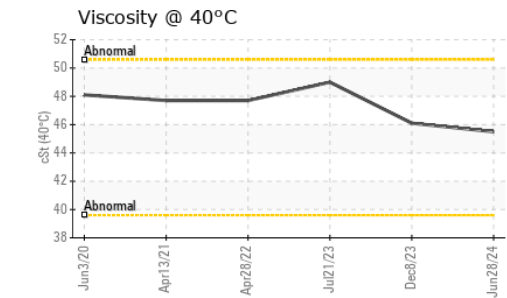
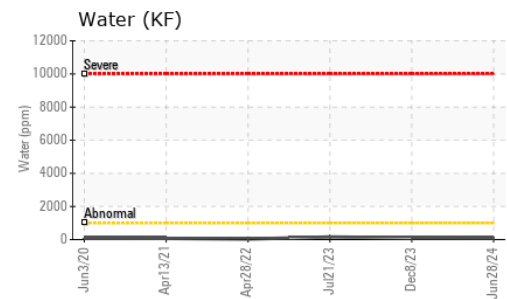
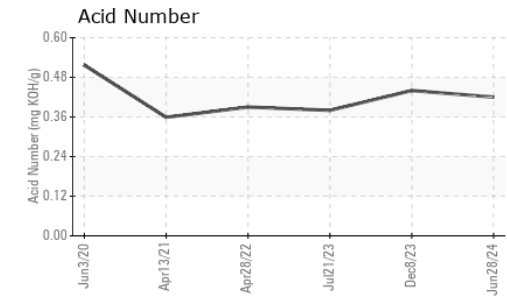
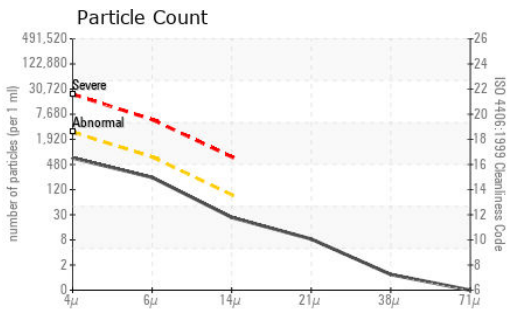
## CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>Y2K0001642</b>	Y2K0001478	Y2K0001259
Sample Date		Client Info		<b>28 Jun 2024</b>	08 Dec 2023	21 Jul 2023
Machine Age	hrs	Client Info		<b>5731</b>	5023	4457
Oil Age	hrs	Client Info		<b>5731</b>	5023	4457
Filter Age	hrs	Client Info		<b>708</b>	566	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL
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Iron	ppm	ASTM D5185m	>20	<b>2</b>	<1	0
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>18</b>	18	16
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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Silicon	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	2
Water	%	ASTM D6304	>0.1	<b>0.008</b>	0.010	0.015
ppm Water	ppm	ASTM D6304	>1000	<b>84</b>	102	159.1
Particles >4µm		ASTM D7647	>2500	<b>603</b>	592	72
Particles >6µm		ASTM D7647	>640	<b>207</b>	165	33
Particles >14µm		ASTM D7647	>80	<b>23</b>	19	7
Particles >21µm		ASTM D7647	>20	<b>7</b>	5	1
Particles >38µm		ASTM D7647	>4	<b>1</b>	1	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<b>16/15/12</b>	16/15/11	13/12/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG
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Sodium	ppm	ASTM D5185m		<b>2</b>	0	2
Boron	ppm	ASTM D5185m		<b>3</b>	1	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	2	2
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>6</b>	4	5
Calcium	ppm	ASTM D5185m		<b>160</b>	145	153
Phosphorus	ppm	ASTM D5185m		<b>726</b>	646	640
Zinc	ppm	ASTM D5185m		<b>889</b>	813	800
Sulfur	ppm	ASTM D5185m		<b>2154</b>	1814	1885
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.42</b>	0.44	0.38
Visc @ 40°C	cSt	ASTM D445		<b>45.5</b>	46.1	49.0



Certificate L2367

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

Sample No. : Y2K0001642

Lab Number : 06231857

Unique Number : 11115350

Test Package : MOB 2 ( Additional Tests: KF )

Received : 09 Jul 2024

Tested : 10 Jul 2024

Diagnosed : 10 Jul 2024 - Wes Davis

CITY OF RED WING SOLID WASTE

1873 BENCH ST

RED WING, MN

US 55066

Contact: JEFF HUPPERT

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F:

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)