

Area

**Drills**

Machine Id

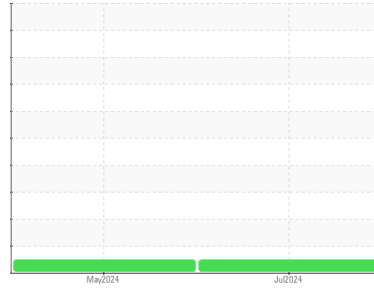
**122002**

Component

**Reservoir Hydraulic System**

Fluid

**CONOCO MEGAFLOW AW 32 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. 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.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>KOH0000052</b>	KOH0000016	---
Sample Date	Client Info	<b>11 Jul 2024</b>	06 May 2024	---
Machine Age	hrs	Client Info	<b>582</b>	0
Oil Age	hrs	Client Info	<b>582</b>	3
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	---
Sample Status		<b>NORMAL</b>	NORMAL	---

**CONTAMINATION** method limit/base current history1 history2

Water	WC Method	>0.1	<b>NEG</b>	NEG	---
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**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>75	<b>1</b>	3	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185m	0	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	1	---
Magnesium	ppm	ASTM D5185m	0	<b>2</b>	0	---
Calcium	ppm	ASTM D5185m	80	<b>54</b>	59	---
Phosphorus	ppm	ASTM D5185m	365	<b>345</b>	354	---
Zinc	ppm	ASTM D5185m	500	<b>445</b>	463	---
Sulfur	ppm	ASTM D5185m	1000	<b>1036</b>	1073	---

**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---

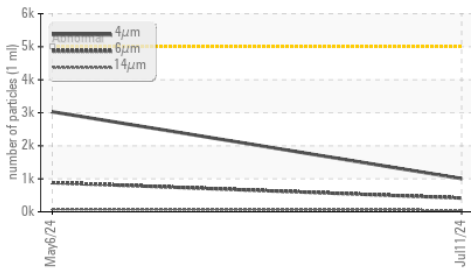
**FLUID CLEANLINESS** method limit/base current history1 history2

Particles >4µm	ASTM D7647	>5000	<b>1006</b>	3029	---
Particles >6µm	ASTM D7647	>1300	<b>416</b>	882	---
Particles >14µm	ASTM D7647	>160	<b>50</b>	81	---
Particles >21µm	ASTM D7647	>40	<b>10</b>	22	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/16/13</b>	19/17/14	---

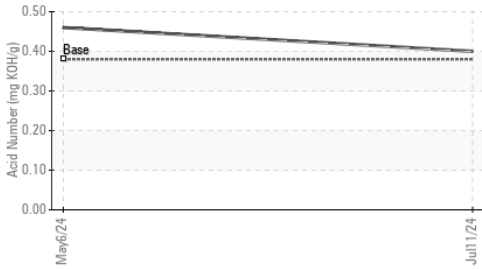
**FLUID DEGRADATION** method limit/base current history1 history2

Acid Number (AN)	mg KOH/g	ASTM D8045	0.38	<b>0.40</b>	0.46	---
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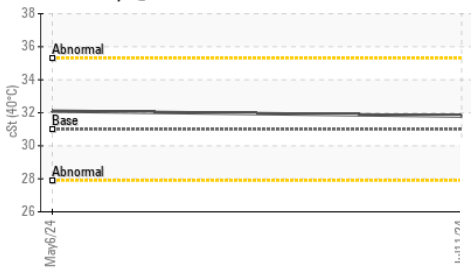
**Particle Trend**



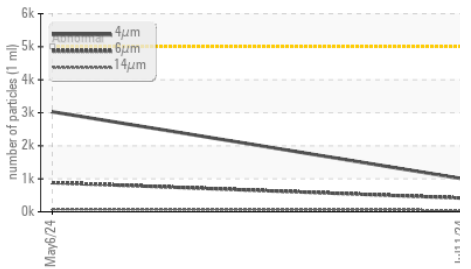
**Acid Number**



**Viscosity @ 40°C**



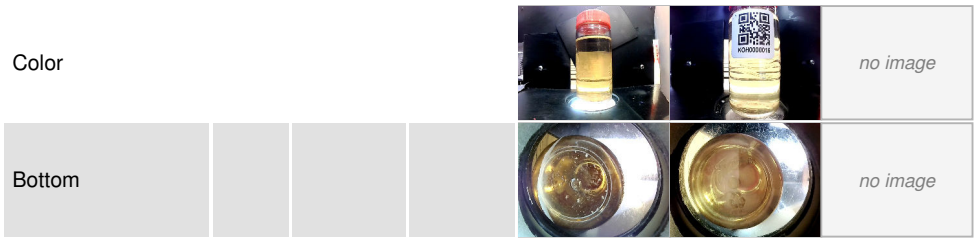
**Particle Trend**



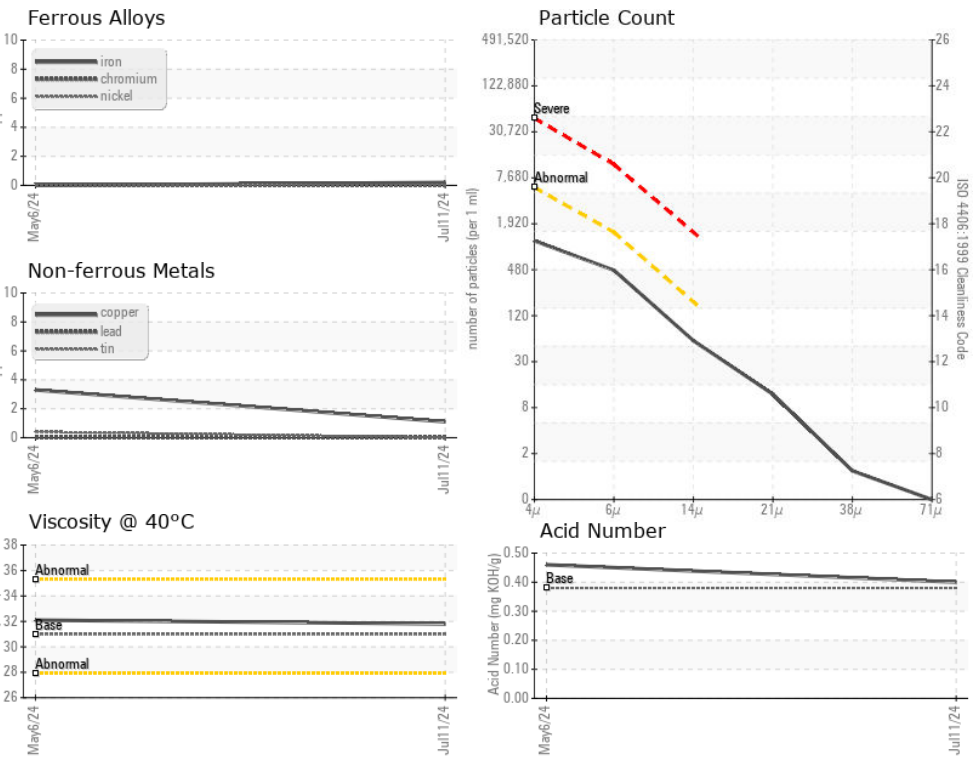
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
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	>0.1	<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	31.0	<b>31.8</b>	32.1	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KOH0000052      **Received** : 17 Jul 2024  
**Lab Number** : **06239107**      **Tested** : 18 Jul 2024  
**Unique Number** : 11127941      **Diagnosed** : 18 Jul 2024 - Wes Davis  
**Test Package** : CONST

**KOMATSU HYDRAULICS**  
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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)