

Area

Drills

Machine Id

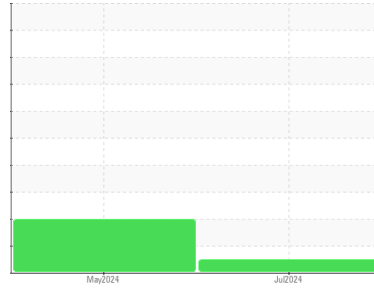
122002

Component

Tank Return 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	KOH0000090	KOH0000017	---
Sample Date	Client Info	11 Jul 2024	06 May 2024	---
Machine Age	hrs	Client Info	582	0
Oil Age	hrs	Client Info	582	3
Oil Changed	Client Info	Not Chngd	Not Chngd	---
Sample Status		NORMAL	ABNORMAL	---

CONTAMINATION method limit/base current history1 history2

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

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

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185m	0	0	0	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	0	0	---
Manganese	ppm	ASTM D5185m		0	1	---
Magnesium	ppm	ASTM D5185m	0	2	0	---
Calcium	ppm	ASTM D5185m	80	54	59	---
Phosphorus	ppm	ASTM D5185m	365	346	363	---
Zinc	ppm	ASTM D5185m	500	443	461	---
Sulfur	ppm	ASTM D5185m	1000	1033	1042	---

CONTAMINANTS method limit/base current history1 history2

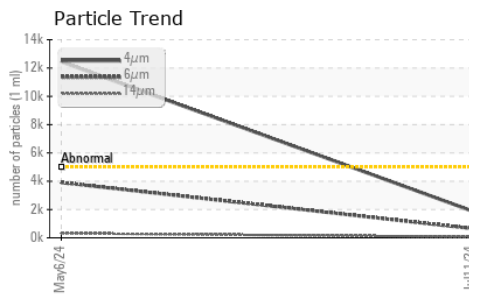
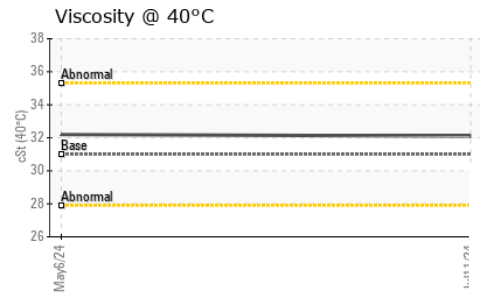
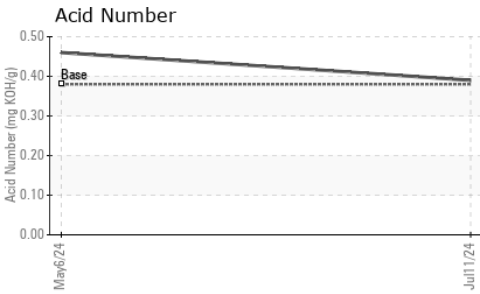
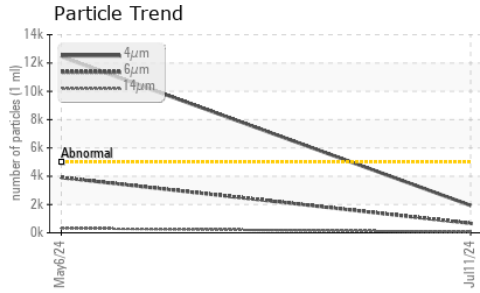
Silicon	ppm	ASTM D5185m	>20	1	2	---
Sodium	ppm	ASTM D5185m		1	1	---
Potassium	ppm	ASTM D5185m	>20	0	0	---

FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm	ASTM D7647	>5000	1934	▲ 12443	---
Particles >6µm	ASTM D7647	>1300	665	▲ 3906	---
Particles >14µm	ASTM D7647	>160	65	▲ 321	---
Particles >21µm	ASTM D7647	>40	15	▲ 81	---
Particles >38µm	ASTM D7647	>10	1	4	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/17/13	▲ 21/19/16	---

FLUID DEGRADATION method limit/base current history1 history2

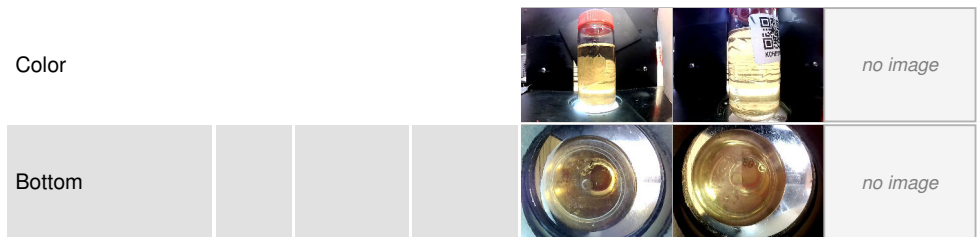
Acid Number (AN)	mg KOH/g	ASTM D8045	0.38	0.39	0.46	---
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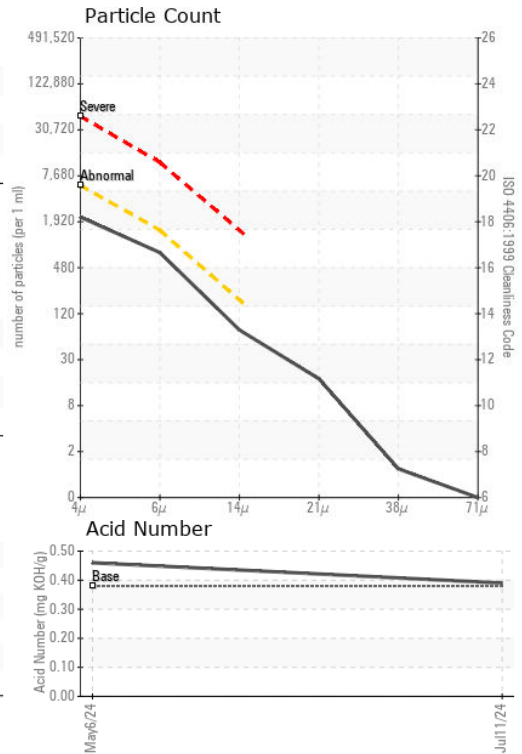
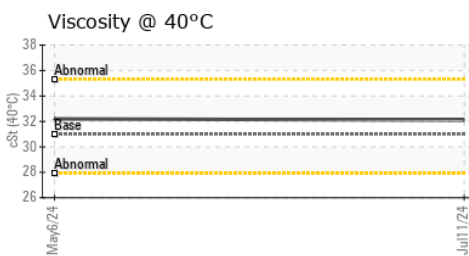
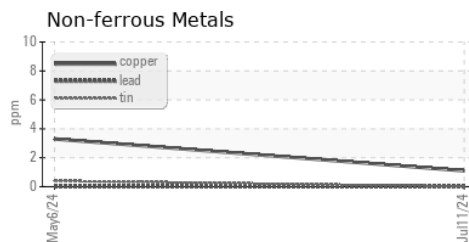
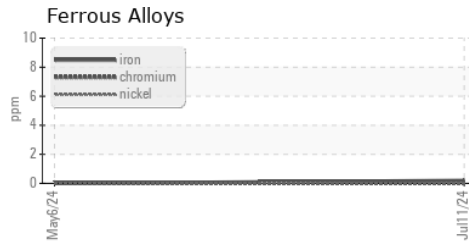
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	31.0	32.1	32.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KOH0000090
Lab Number : 06239104
Unique Number : 11127938
Test Package : CONST

Received : 17 Jul 2024
Tested : 18 Jul 2024
Diagnosed : 18 Jul 2024 - Wes Davis

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)

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