



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**C586 HSP5 PUMP 5**  
 Component  
**Hydraulic System**  
 Fluid  
**AW HYDRAULIC OIL ISO 68 (--- GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

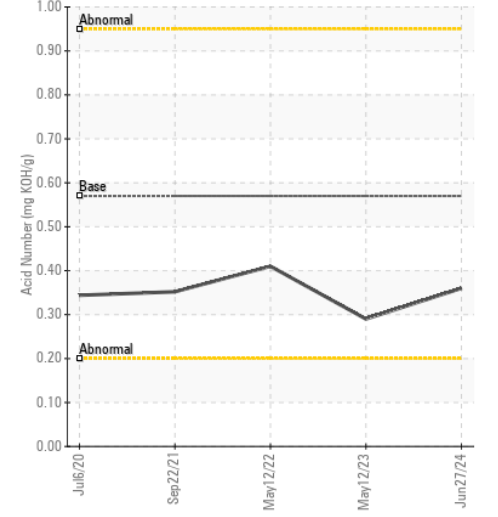
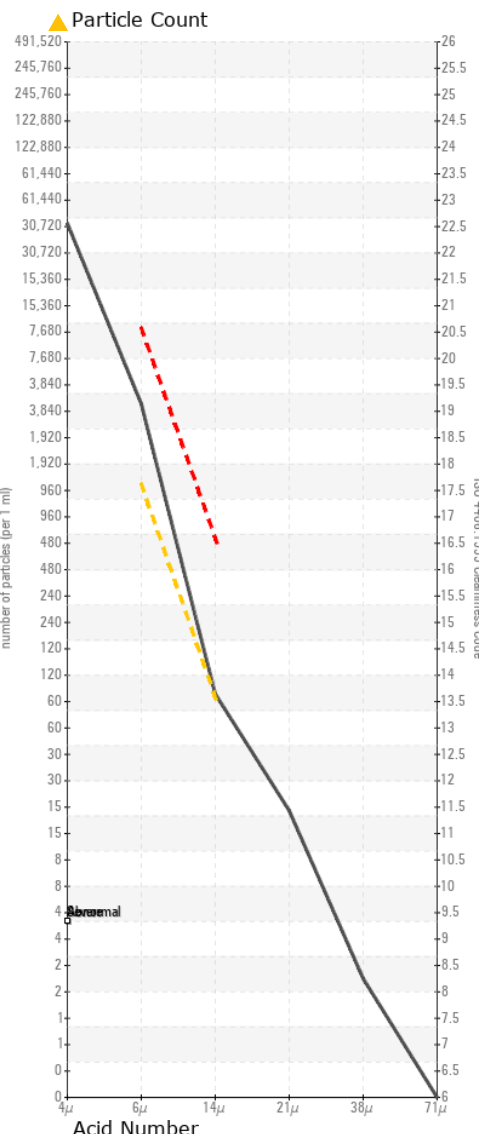
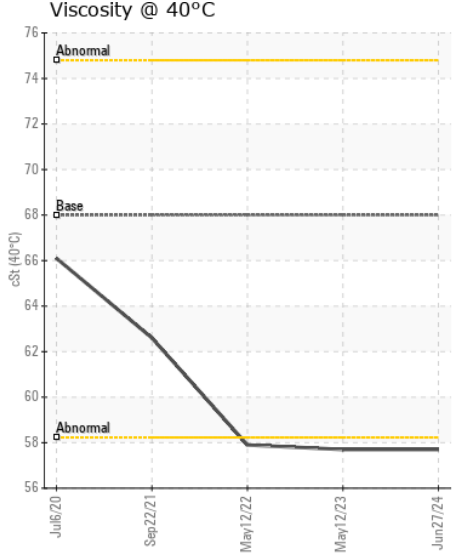
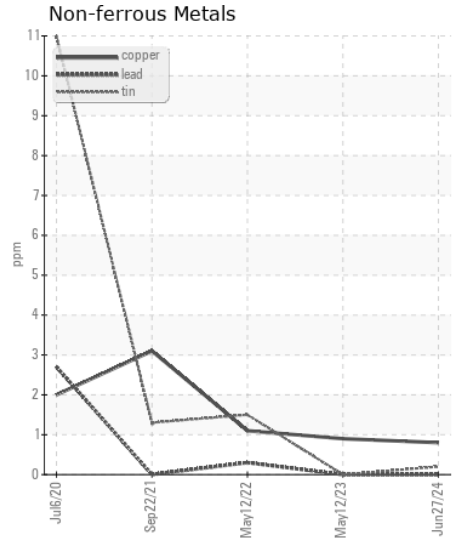
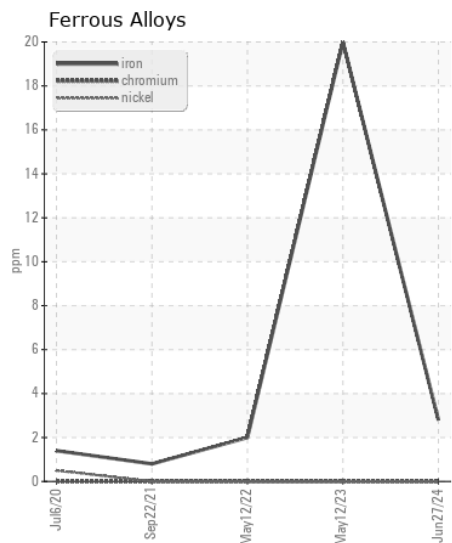
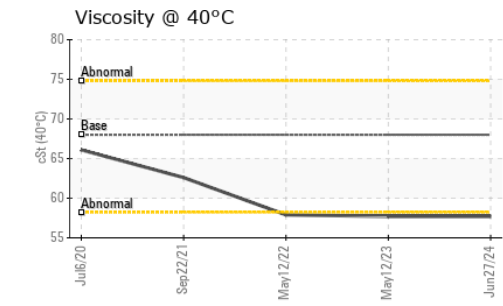
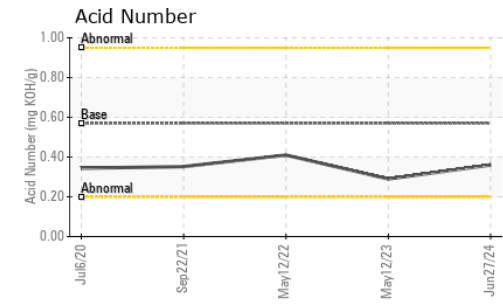
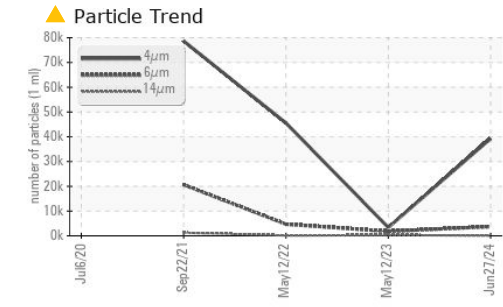
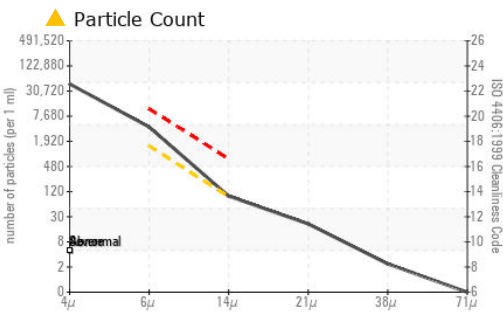
## CONTAMINATION

There is a high amount of particulates present in the oil. 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 condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>FC006230</b>	FC009963	FC007367
Sample Date		Client Info		<b>27 Jun 2024</b>	12 May 2023	12 May 2022
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>20	<b>3</b>	▲ 20	2
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	<b>1</b>	<1	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647		<b>39282</b>	3358	45541
Particles >6µm		ASTM D7647	>1300	▲ <b>3695</b>	▲ 1829	▲ 4699
Particles >14µm		ASTM D7647	>80	▲ <b>83</b>	▲ 311	▲ 126
Particles >21µm		ASTM D7647	>20	<b>18</b>	▲ 105	▲ 27
Particles >38µm		ASTM D7647	>4	<b>2</b>	▲ 16	4
Particles >71µm		ASTM D7647	>3	<b>0</b>	▲ 2	0
Oil Cleanliness		ISO 4406 (c)	>-/17/13	▲ <b>22/19/14</b>	▲ 19/18/15	▲ 23/19/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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	>0.05	<b>NEG</b>	0.2%	NEG
Sodium	ppm	ASTM D5185m		<b>2</b>	0	0
Boron	ppm	ASTM D5185m	5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	25	<b>&lt;1</b>	0	<1
Calcium	ppm	ASTM D5185m	200	<b>40</b>	31	40
Phosphorus	ppm	ASTM D5185m	300	<b>338</b>	316	303
Zinc	ppm	ASTM D5185m	370	<b>414</b>	397	400
Sulfur	ppm	ASTM D5185m	2500	<b>903</b>	814	620
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.36</b>	0.29	0.41
Visc @ 40°C	cSt	ASTM D445	68	<b>57.7</b>	57.7	57.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : FC006230  
**Lab Number** : 06226175  
**Unique Number** : 11109668  
**Test Package** : IND 2  
**Received** : 02 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Jonathan Hester

**FLUID CONTROL SERVICES, INC.**  
 1155 ALLGOOD ROAD, SUITE 15  
 MARIETTA, GA  
 US 30062  
 Contact: Duane Smith  
 dsmith.fcs@sealsaver.com  
 T: (770)509-5833  
 F: (770)509-5832

Certificate L2367  
 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)