

## WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

## Machine Id EILEEN C Component Steering Fluid Steering Oil (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.



All component wear rates are normal.

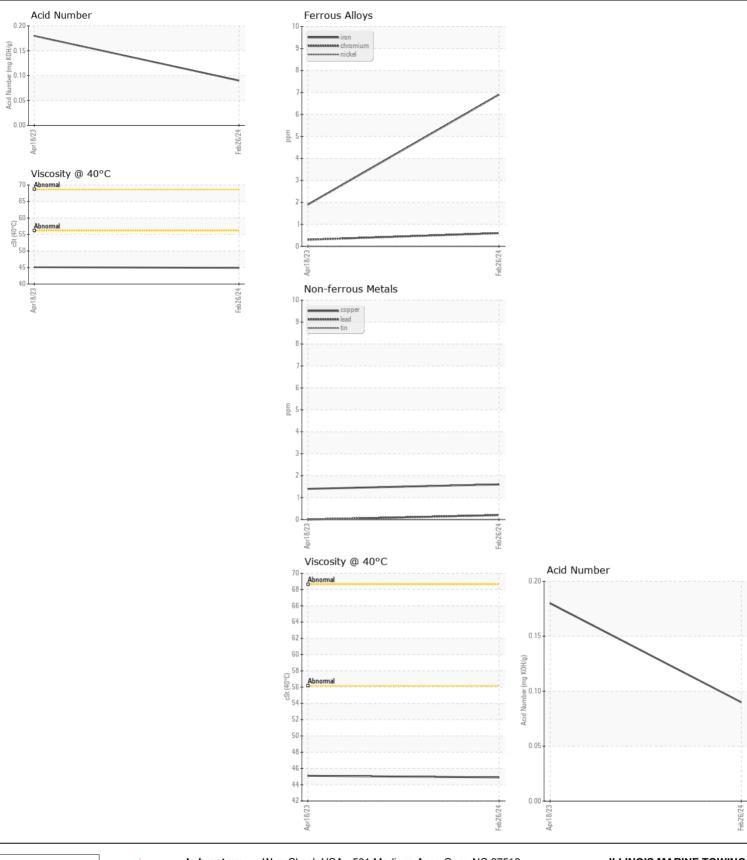
## CONTAMINATION

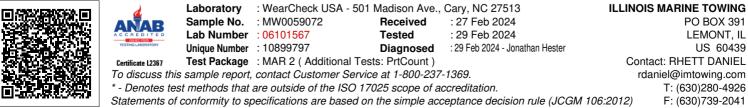
High concentration of visible dirt/debris present in the fluid.

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0059072	MW0034964	
Sample Date		Client Info		26 Feb 2024	18 Apr 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>60	7	2	
Chromium	ppm	ASTM D5185m	>12	<1	<1	
Nickel	ppm	ASTM D5185m	>6	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>4	0	0	
Lead	ppm	ASTM D5185m	>12	<1	0	
Copper	ppm	ASTM D5185m	>30	2	1	
Tin	ppm	ASTM D5185m		0	0	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>10	<1	0	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water		WC Method		NEG	NEG	
Particles >4µm		ASTM D7647			▲ 37184	
Particles >6µm		ASTM D7647	>640		A 8676	
Particles >14µm		ASTM D7647	>80		<b>4</b> 11	
Particles >21µm		ASTM D7647	>20		<b>6</b> 5	
Particles >38µm		ASTM D7647			2	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)			▲ 22/20/16	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	A HEAVY	A MODER	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual		NEG	NEG	
				0	0	
Sodium	ppm	ASTM D5185m		0	2	
Boron	ppm	ASTM D5185m		0	2	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		4	4	
Calcium	ppm	ASTM D5185m		138	180	
Phosphorus	ppm	ASTM D5185m		130	178	
Zinc	ppm	ASTM D5185m		98	104	
Sulfur	ppm	ASTM D5185m		483	828	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.09	0.18	
Visc @ 40°C	cSt	ASTM D445		44.9	45.1	





Contact/Location: RHETT DANIEL - AMELEMIL