

#### Machine Id **CARMACH 1001933 - FBM** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- GAL)**

### RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

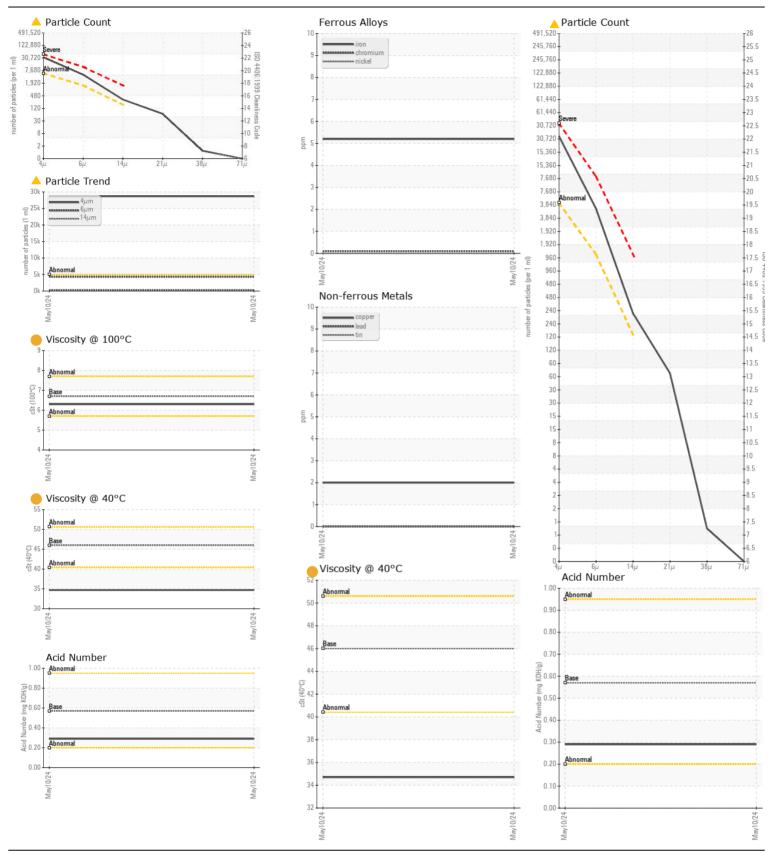
# CONTAMINATION

There is a high amount of particulates present in the oil.

# FLUID CONDITION

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0927132		
Sample Date		Client Info		10 May 2024		
Machine Age	hrs	Client Info		4		
Oil Age	hrs	Client Info		4		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Changed		
Sample Status		0.101.11.10		ABNORMAL		
Iron	ppm	ASTM D5185m	>20	5		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m	-	0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
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Silicon	ppm	ASTM D5185m	>20	1		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	<b>A</b> 28673		
Particles >6µm		ASTM D7647	>1300	<b>4</b> 311		
Particles >14µm		ASTM D7647	>160	<b>A</b> 278		
Particles >21µm		ASTM D7647	>40	<b>5</b> 8		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 22/19/15		
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		
Sodium	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	25	6		
Calcium	ppm	ASTM D5185m	200	66		
Phosphorus	ppm	ASTM D5185m	300	348		
Zinc	ppm	ASTM D5185m	370	437		
Sulfur	ppm	ASTM D5185m	2500	3990		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.29		
Visc @ 40°C	cSt	ASTM D445	46	934.7		
Visc @ 100°C	cSt	ASTM D445	6.7	6.3		
Viscosity Index (VI)	Scale	ASTM D2270	97	133		
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HIAB USA - SOUTH** Sample No. : WC0927132 Received 8960 HWY 5 BLDG A : 28 May 2024 Lab Number :06192195 Tested DOUGLASVILLE, GA : 29 May 2024 Unique Number : 11048947 : 31 May 2024 - Jonathan Hester US 30135 Diagnosed Test Package : MOB 2 (Additional Tests: KV100, VI) Contact: CHARLES FOERSTER Certificate L2367 charles.foerster@hiab.com 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. T: (404)787-0966 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (770)949-7552

Contact/Location: CHARLES FOERSTER - CARDOU Page 2 of 2