

## Machine Id HAMM H16I H2340426 1 Hydraulic System AW HYDRAULIC OIL ISO 46 (--- GAL)

## RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.



All component wear rates are normal.

## CONTAMINATION

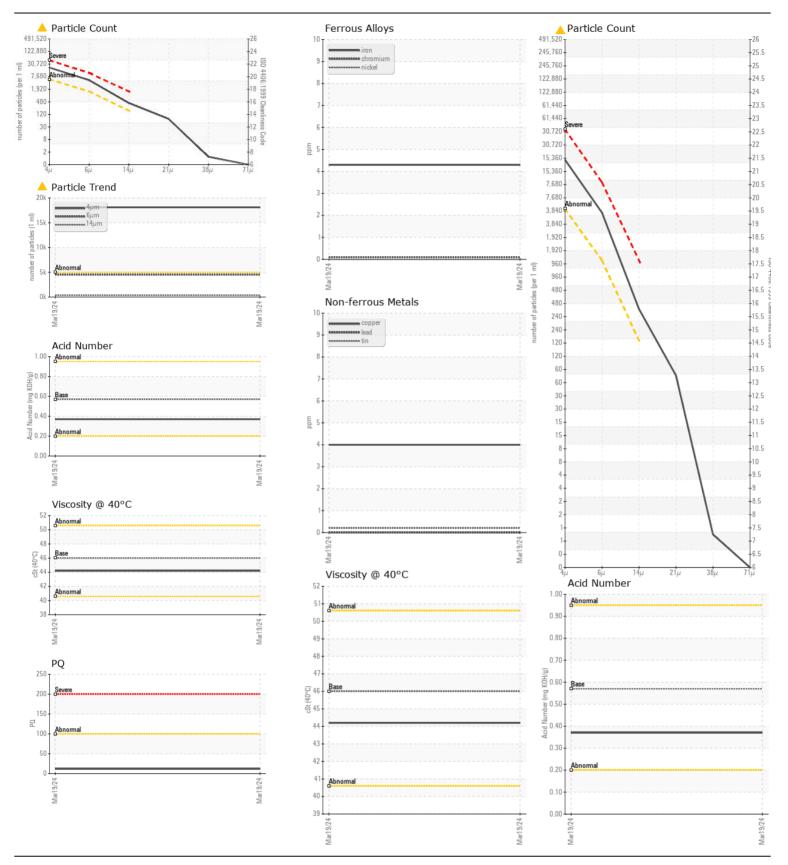
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

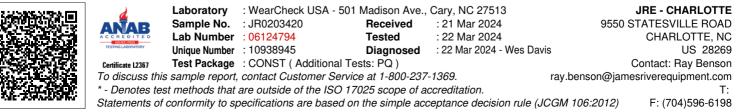
## **FLUID CONDITION**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203420		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	Client Info		1095		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
PQ		ASTM D8184		12		
Iron	ppm	ASTM D5185m	>20	4		
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	4		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	6		
Potassium	ppm	ASTM D5185m	>20	0		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	<b>4532</b>		
Particles >14µm		ASTM D7647	>160	<b>A</b> 364		
Particles >21µm		ASTM D7647	>40	64		
Particles >38µm		ASTM D7647	>10	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		
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		
Codium				4		
Sodium	ppm	ASTM D5185m	E	1		
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	0		
Molybdenum	ppm	ASTM D5185m	5	<1		
Manganese	ppm	ASTM D5185m	05	<1		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m	200	85		
Phosphorus	ppm	ASTM D5185m	300	266		
Zinc	ppm	ASTM D5185m	370	346		
Sulfur	ppm	ASTM D5185m	2500	1034		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.37		
Visc @ 40°C	cSt	ASTM D445	46	44.2		







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