

Machine Id **3350917** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 32 (--- GAL)**

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

WEAR

All component wear rates are normal.

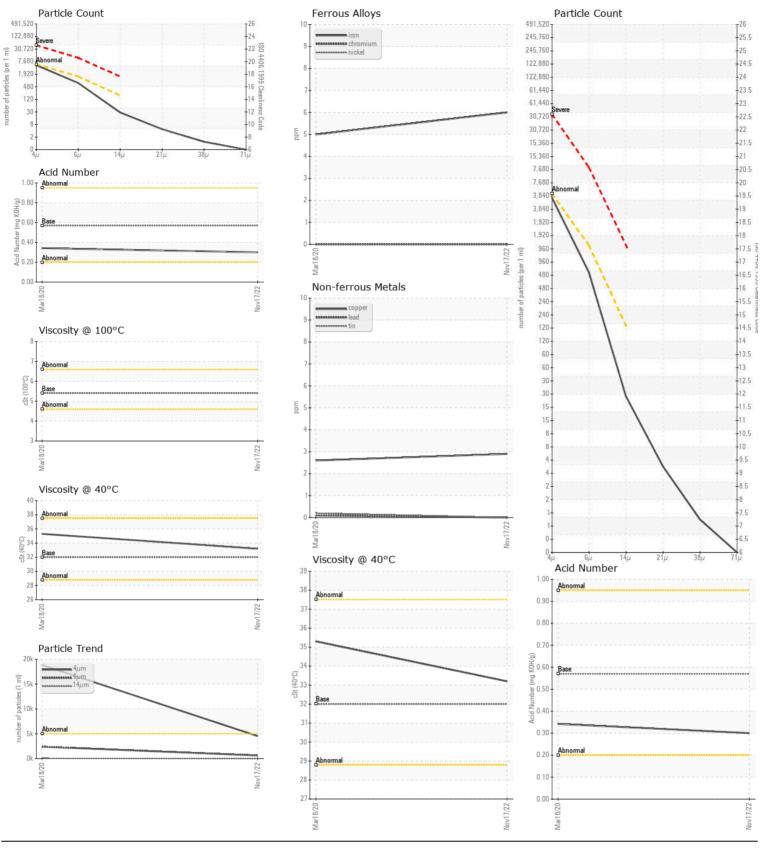
CONTAMINATION

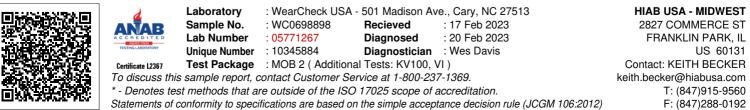
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0698898	WC0443845	
Sample Date		Client Info		17 Nov 2022	18 Mar 2020	
Machine Age	yrs	Client Info		0	0	
Oil Age	yrs	Client Info		0	0	
Filter Age	yrs	Client Info		0	1	
Oil Changed	<i>,</i> -	Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>20	6	5	
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	<1	
Aluminum	ppm	ASTM D5185m	>10	0	0	
Lead	ppm	ASTM D5185m	>10	0	<1	
Copper	ppm	ASTM D5185m	>75	3	3	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>5000	4522	▲ 18826	
Particles >6µm		ASTM D7647	>1300	638	2 400	
Particles >14µm		ASTM D7647	>160	25	60	
Particles >21µm		ASTM D7647	>40	4	12	
Particles >38µm		ASTM D7647	>10	1	1	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness	a a a la v	ISO 4406 (c)	>19/17/14	19/16/12	▲ 21/18/13	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	VLITE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE NORML	
Appearance Odor	scalar scalar	*Visual *Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
	Scalai	visuai	>0.1	NEG	NLG	
Sodium	ppm	ASTM D5185m		<1	<1	
Boron	ppm	ASTM D5185m	5	0	6	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	5	<1	1	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	25	4	4	
Calcium	ppm	ASTM D5185m	200	78	82	
Phosphorus	ppm	ASTM D5185m	300	349	364	
Zinc	ppm	ASTM D5185m	370	454	456	
Sulfur	ppm	ASTM D5185m	2500	4443	3357	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.30	0.342	
Visc @ 40°C	cSt	ASTM D445	32	33.2	35.3	
Visc @ 100°C	cSt	ASTM D445	5.4	6.6		
Viscosity Index (VI)	Scale	ASTM D2270	102	158		





Contact/Location: KEITH BECKER - CARFRAIL

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