

Machine Id **508 - ADLER WAREHOUSE** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 32 (--- GAL)**

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

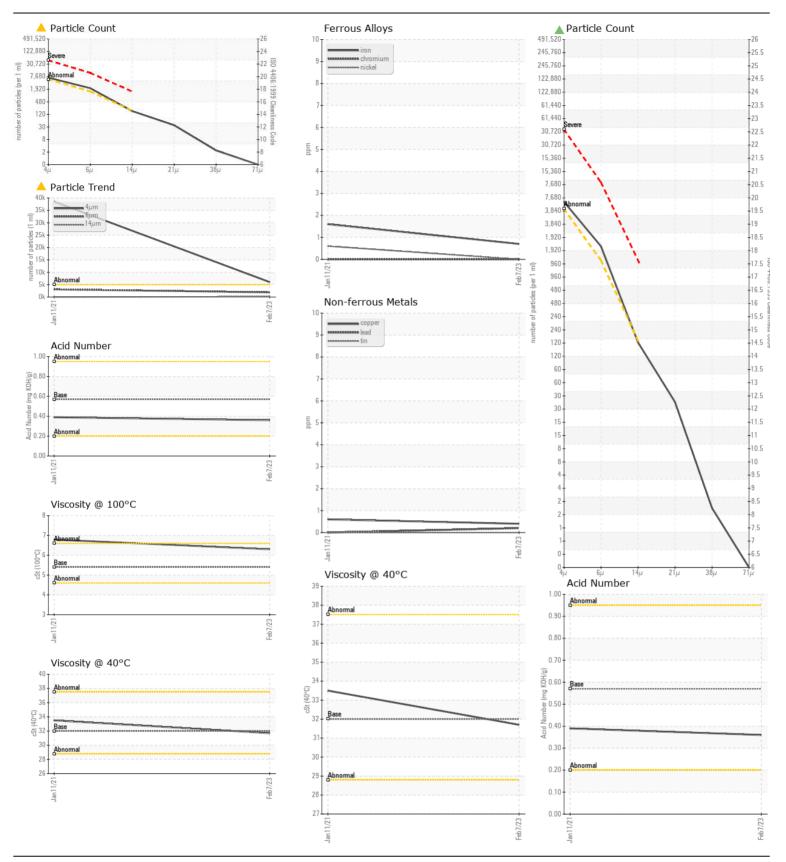
CONTAMINATION

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 condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0679383	WC0533687	
Sample Date		Client Info		07 Feb 2023	11 Jan 2021	
Machine Age	vrs	Client Info		0	16	
Oil Age	yrs	Client Info		0	1	
Filter Age	yrs	Client Info		1	1	
Oil Changed	yıs	Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ATTENTION	ABNORMAL	
Iron	ppm	ASTM D5185m	>20	<1	2	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	0	<1	
Titanium	ppm	ASTM D5185m	10	0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	0	0	
Lead	ppm	ASTM D5185m	>10	۰ <1	0	
Copper	ppm	ASTM D5185m	>75	<1	<1	
Tin	ppm	ASTM D5185m	>10	0	0	
Vanadium	ppm	ASTM D5185m	~10	0	0	
White Metal	scalar	*Visual	NONE	LIGHT	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Scalai	visuai				
Silicon	ppm	ASTM D5185m	>20	1	1	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	1-1-	WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>5000	6019	▲ 38544	
Particles >6µm		ASTM D7647	>1300	1881	▲ 3092	
Particles >14µm		ASTM D7647	>160	152	9	
Particles >21µm		ASTM D7647	>40	32	2	
Particles >38µm		ASTM D7647	>10	2	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/14	<u> </u>	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	VLITE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m		0	<1	
Boron	ppm	ASTM D5185m	5	2	4	
Barium	ppm	ASTM D5185m	5	0	3	
Molybdenum	ppm	ASTM D5185m	5	3	1	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	25	21	12	
Calcium	ppm	ASTM D5185m	200	101	101	
Phosphorus	ppm	ASTM D5185m	300	331	419	
Zinc	ppm	ASTM D5185m	370	424	468	
Sulfur	ppm	ASTM D5185m	2500	1102	1014	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.36	0.390	
Visc @ 40°C	cSt	ASTM D445	32	31.7	33.5	
Visc @ 100°C	cSt	ASTM D445	5.4	6.3	6.79	
Viscosity Index (VI)	Scale	ASTM D2270	102	153	166	
		0				



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HIAB USA - MIDWEST** Ξř ł.E Ì. Sample No. Recieved : 17 Feb 2023 2827 COMMERCE ST : WC0679383 Ì Lab Number FRANKLIN PARK, IL : 05771261 Diagnosed : 20 Feb 2023 : 10345878 US 60131 **Unique Number** Diagnostician : Doug Bogart Test Package : MOB 2 (Additional Tests: KV100, VI) Contact: KEVIN VANNEWKIRK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. kevin.vannewkirk@hiab.com 6 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (847)323-3188 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (847)288-0192

Contact/Location: KEVIN VANNEWKIRK - CARFRAIL

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