

Machine Id **492084.01** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- QTS)**

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. (after filtration)

WEAR

All component wear rates are normal.

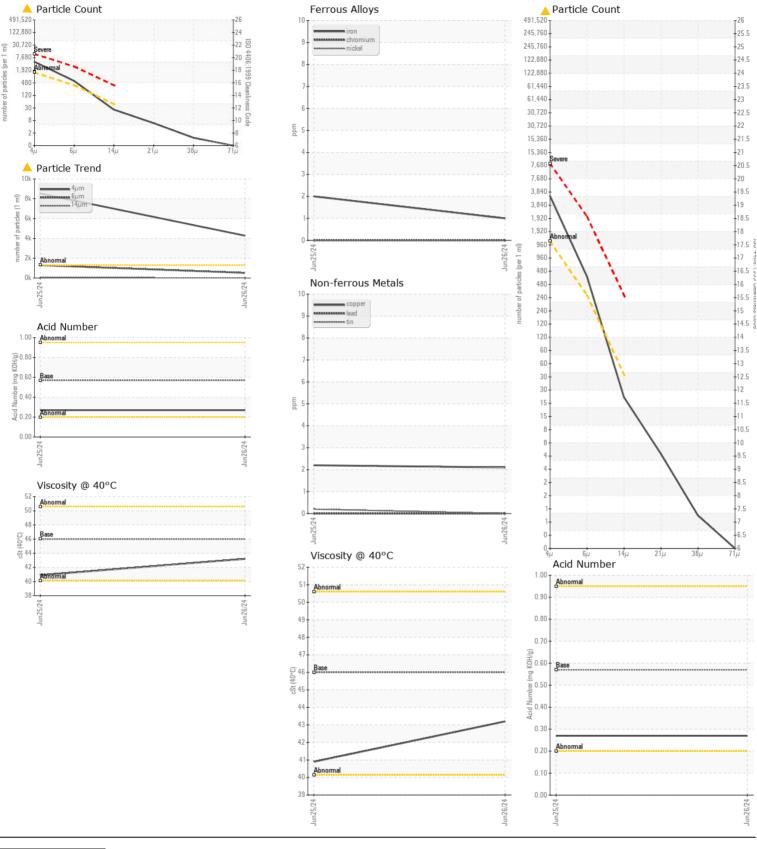
CONTAMINATION

There is a high 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 acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		KL0014385	KL0014384	
Sample Date		Client Info		26 Jun 2024	25 Jun 2024	
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		Not Changd	Not Changd	
Filter Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>20	1	2	
Chromium	ppm	ASTM D5185m	>20	0	0	
Nickel	ppm	ASTM D5185m	>20	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>20	0	0	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm	ASTM D5185m	>20	2	2	
Tin	ppm	ASTM D5185m	>20	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon				4	4	
Potassium	ppm	ASTM D5185m	>15 >20	4	4	
	ppm	ASTM D5185m WC Method		1 NEG		
Water Particles >4µm		ASTM D7647	>0.05 >1300	NEG 4274	NEG	
		ASTM D7647 ASTM D7647	>1300	4274 518	▲ 8528 ▲ 1293	
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647	>320	22	39	
Particles >21µm		ASTM D7647 ASTM D7647	>40	5	12	
Particles >38µm		ASTM D7647 ASTM D7647	>10	5 1	0	
Particles >30µm		ASTM D7647 ASTM D7647	>3 >3	0	0	
Oil Cleanliness		ISO 4406 (c)	>17/15/12	19/16/12	20/17/12	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
				~	0	
Sodium	ppm	ASTM D5185m		2	2	
Boron	ppm	ASTM D5185m	5	0	0	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m	5	0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	25	3	2	
Calcium	ppm	ASTM D5185m	200	51	46	
Phosphorus	ppm	ASTM D5185m	300	310	302	
Zinc	ppm	ASTM D5185m	370	377	360	
Sulfur	ppm	ASTM D5185m	2500	6930	6418	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.27	0.27	
Visc @ 40°C	cSt	ASTM D445	46	43.2	40.9	
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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 FREUDENBERG-NOK Sample No. : KL0014385 Received 50 AMMON DR #3308 : 10 Jul 2024 Lab Number : 06232248 Tested MANCHESTER, NH : 11 Jul 2024 Unique Number : 11115741 : 11 Jul 2024 - Don Baldridge US 03103 Diagnosed Test Package : MOB 2 Contact: CHRIS SMITH Certificate L2367 chris.smith@lwb.us.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: (937)570-3273 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: CHRIS SMITH - FREMANKL Page 2 of 2

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