

Machine Id **PRAIRIE STATE - WHEELHOUSE LIFT** Component **Hydraulic System** Fluid **AW HYDRAULIC OIL ISO 46 (--- GAL)**

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.



All component wear rates are normal.

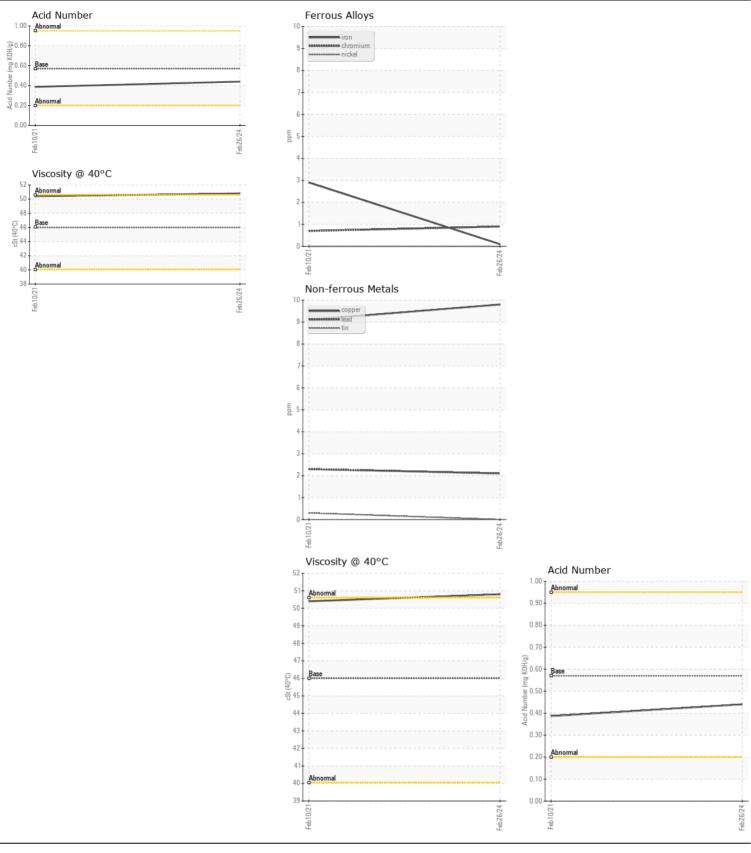
CONTAMINATION

Moderate concentration of visible dirt/debris 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		MW0059120	MW0011439	
Sample Date		Client Info		26 Feb 2024	10 Feb 2021	
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		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>20	<1	3	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	0	0	
Lead	ppm	ASTM D5185m	>10	2	2	
Copper	ppm	ASTM D5185m	>75	10	9	
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	
Ciliaan			. 00	0	.4	
Silicon	ppm	ASTM D5185m	>20	3	<1	
Potassium	ppm	ASTM D5185m	>20	0	<1	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>5000		▲ 92037	
Particles >6µm		ASTM D7647	>1300		▲ 5280	
Particles >14µm		ASTM D7647	>160		35	
Particles >21µm		ASTM D7647	>40		5	
Particles >38µm		ASTM D7647	>10		0	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness	a a a la v	ISO 4406 (c)	>19/17/14		▲ 24/20/12	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE		NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor Emulaified Water	scalar	*Visual		NORML	NORML NEG	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m		0	2	
Boron	ppm	ASTM D5185m	5	0	6	
Barium	ppm	ASTM D5185m	5	0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m	-	<1	<1	
Magnesium	ppm	ASTM D5185m	25	8	6	
Calcium	ppm	ASTM D5185m	200	285	275	
Phosphorus	ppm	ASTM D5185m	300	298	293	
Zinc	ppm	ASTM D5185m	370	311	300	
Sulfur	ppm	ASTM D5185m	2500	2188	1854	
Acid Number (AN)	mg KOH/g	ASTM D3103III	0.57	0.44	0.387	
Visc @ 40°C	cSt	ASTM D0045 ASTM D445	46	50.8	50.4	
	001	A011010440	40	50.0	50.4	



ILLINOIS MARINE TOWING Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : MW0059120 Received : 27 Feb 2024 PO BOX 391 Lab Number : 06101566 : 29 Feb 2024 LEMONT, IL Tested Unique Number : 10899796 : 29 Feb 2024 - Jonathan Hester US 60439 Diagnosed Test Package : MAR 2 Contact: RHETT DANIEL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rdaniel@imtowing.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (630)280-4926 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (630)739-2041

Contact/Location: RHETT DANIEL - AMELEMIL