

Store 9 - Marietta Machine Id FLOOR 2 PUMP

Component Hydraulic System

CITGO AW68 (--- 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.

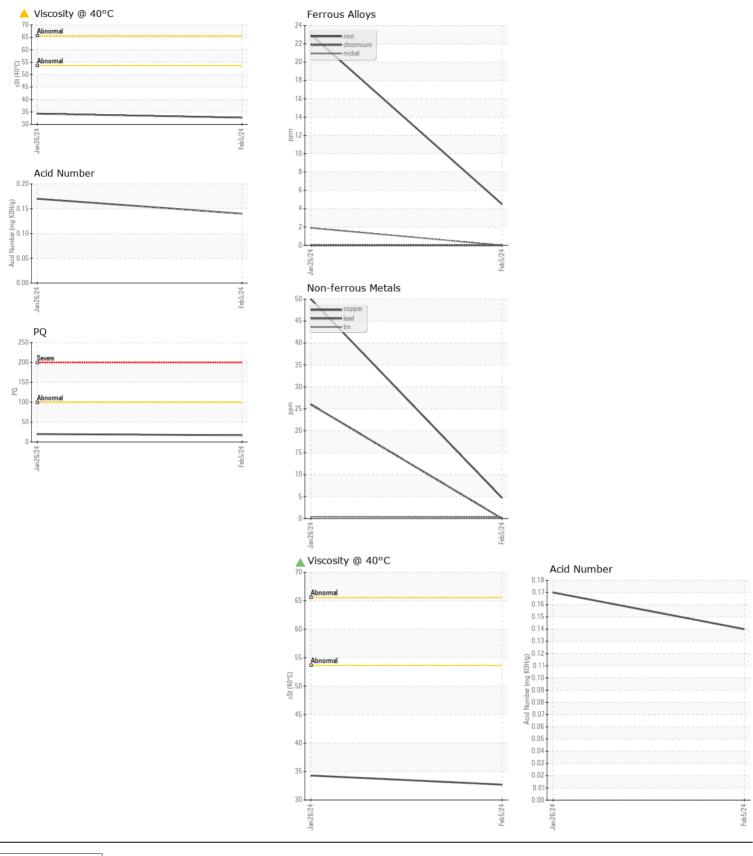
CONTAMINATION

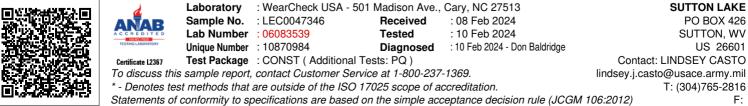
Moderate concentration of visible dirt/debris present in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047346	LEC0047341	
Sample Date		Client Info		05 Feb 2024	26 Jan 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	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	SEVERE	
PQ		ASTM D8184		17	20	
Iron	ppm	ASTM D5185m	>20	4	A 23	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>10	0	2	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	0	<1	
Lead	ppm	ASTM D5185m	>10	0	A 26	
Copper	ppm	ASTM D5185m	>75	5	50	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
White Metal	scalar	*Visual	NONE	NONE	🔺 LIGHT	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	0	2	
Potassium	ppm	ASTM D5185m	>20	0	2	
Water		WC Method	>0.1	NEG	NEG	
Particles >4µm		ASTM D7647	>5000		252958	
Particles >6µm		ASTM D7647	>1300		100173	
Particles >14µm		ASTM D7647	>160		5139	
Particles >21µm		ASTM D7647	>40		829	
Particles >38µm		ASTM D7647	>10		9	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		25/24/20	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris Canad/Dirt	scalar	*Visual	NONE		NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor Emulsified Water	scalar	*Visual	NORML	NORML NEG	NORML	
	scalar	*Visual	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185m		<1	<1	
Boron	ppm	ASTM D5185m		0	3	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	2	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	7	
Calcium	ppm	ASTM D5185m		22	59	
Phosphorus	ppm	ASTM D5185m		25	51	
Zinc	ppm	ASTM D5185m		23	31	
Sulfur	ppm	ASTM D5185m		877	1047	
Acid Number (AN)	mg KOH/g	ASTM D8045		0.14	0.17	
Visc @ 40°C	cSt	ASTM D445		▲ 32.7	34.3	
	001				01.0	





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