

Machine Id
JOHN DEERE 222-1605
Component
Hydraulic System
Fluid
SAE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Test values may be asked due high concentration of free water present in sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

WEAR

All component wear rates are normal.

CONTAMINATION

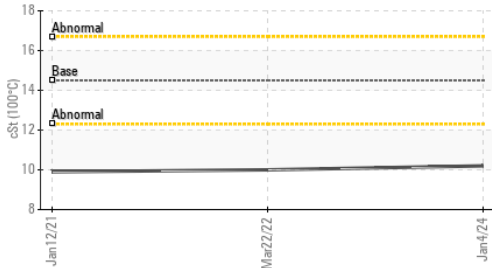
Free water present.

FLUID CONDITION

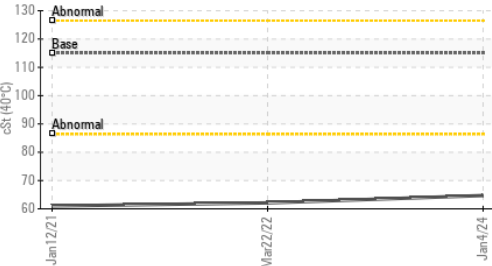
Viscosity of sample indicates oil is within SAE 10W30 range, advise investigate. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0084902	PC0043315	PC0042784
Sample Date		Client Info		04 Jan 2024	22 Mar 2022	12 Jan 2021
Machine Age	hrs	Client Info		11747	8504	6889
Oil Age	hrs	Client Info		1500	1614	0
Filter Age	hrs	Client Info		1500	1614	1668
Oil Changed		Client Info		Changed	Not Changed	N/A
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>20	13	9	8
Chromium	ppm	ASTM D5185(m)	>10	9	6	6
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>10	3	2	2
Lead	ppm	ASTM D5185(m)	>10	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>75	11	7	7
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	5	4	4
Potassium	ppm	ASTM D5185(m)	>20	1	1	1
Water	%	ASTM D6304*	>0.1	0.034	---	---
ppm Water	ppm	ASTM D6304*	>1000	342	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	▲ LIGHT	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>57	12	7	6
Boron	ppm	ASTM D5185(m)		3	3	3
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		43	36	34
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		682	593	551
Calcium	ppm	ASTM D5185(m)		1131	1121	1145
Phosphorus	ppm	ASTM D5185(m)		988	1005	978
Zinc	ppm	ASTM D5185(m)		1168	1140	1181
Sulfur	ppm	ASTM D5185(m)		2844	2616	2797
Visc @ 40°C	cSt	ASTM D7279(m)	115	▲ 64.7	▲ 62.1	▲ 61
Visc @ 100°C	cSt	ASTM D7279(m)	14.5	▲ 10.2	▲ 10.0	▲ 9.9
Viscosity Index (VI)	Scale	ASTM D2270*	128	144	146	147

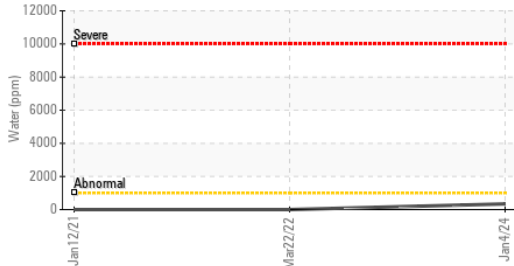
▲ Viscosity @ 100°C



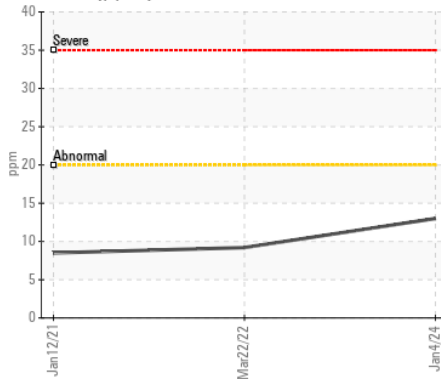
▲ Viscosity @ 40°C



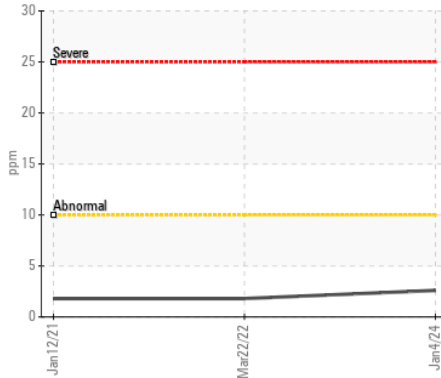
Water (KF)



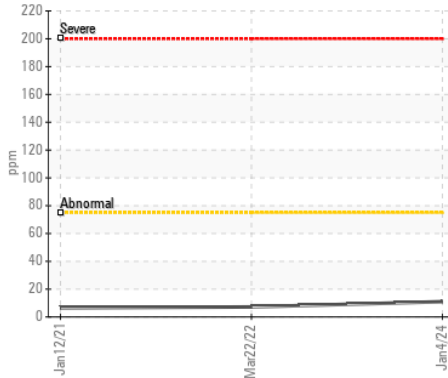
Iron (ppm)



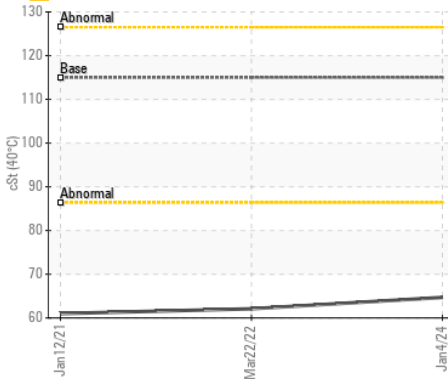
Aluminum (ppm)



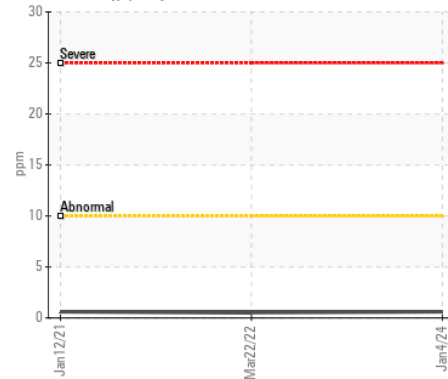
Copper (ppm)



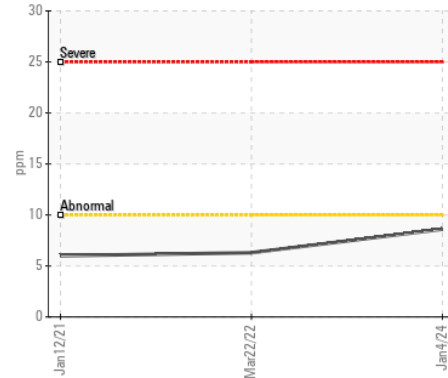
▲ Viscosity @ 40°C



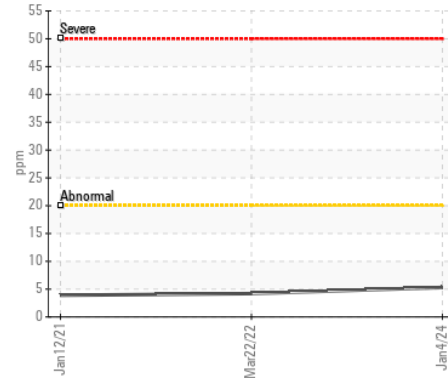
Lead (ppm)



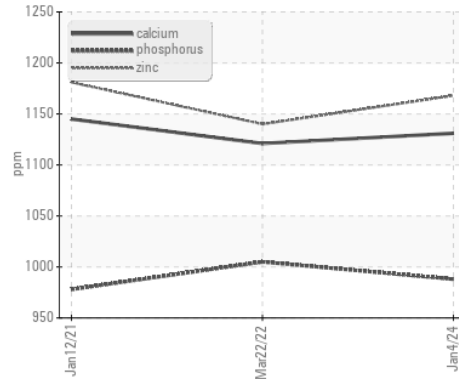
Chromium (ppm)



Silicon (ppm)



Additives



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084902 **Received** : 08 Jan 2024
Lab Number : 02607147 **Diagnosed** : 10 Jan 2024
Unique Number : 5708233 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KF, KV100, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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