MOB I LUBE 360 OIL DIAGNOSTICS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
JOHN DEERE 130G 2301902
Component
Hydraulic System
Fluid
HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION

Check seals and/or filters for points of contaminant entry. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. 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

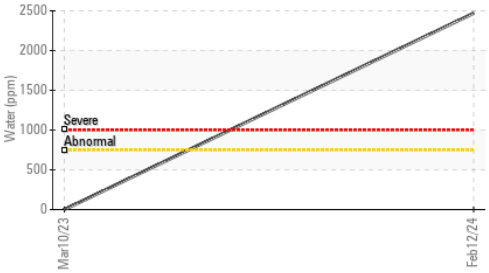
There is a moderate concentration of water present in the oil.

FLUID CONDITION

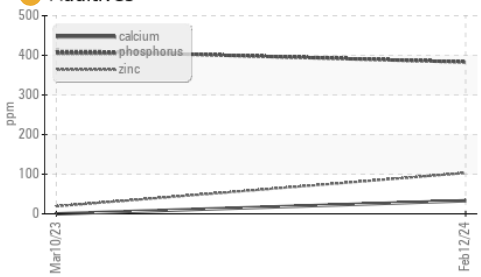
Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0072411	PC0071625	---
Sample Date		Client Info		12 Feb 2024	10 Mar 2023	---
Machine Age	hrs	Client Info		3343	2777	---
Oil Age	hrs	Client Info		3343	2777	---
Filter Age	hrs	Client Info		600	1000	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---
Iron	ppm	ASTM D5185(m)	>32	20	6	---
Chromium	ppm	ASTM D5185(m)	>9	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>9	3	<1	---
Lead	ppm	ASTM D5185(m)	>28	<1	<1	---
Copper	ppm	ASTM D5185(m)	>50	3	<1	---
Tin	ppm	ASTM D5185(m)	>5	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>11	2	<1	---
Potassium	ppm	ASTM D5185(m)	>20	3	1	---
Water	%	ASTM D6304*	>0.075	▲ 0.247	---	---
ppm Water	ppm	ASTM D6304*	>750	▲ 2470	---	---
Silt	scalar	Visual*	NONE	NONE	LIGHT	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	▲ HAZY	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.075	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)	>21	20	1	---
Boron	ppm	ASTM D5185(m)		4	1	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		3	0	---
Calcium	ppm	ASTM D5185(m)		33	0	---
Phosphorus	ppm	ASTM D5185(m)	510	383	412	---
Zinc	ppm	ASTM D5185(m)		● 103	19	---
Sulfur	ppm	ASTM D5185(m)		215	212	---
Visc @ 40°C	cSt	ASTM D7279(m)	47.54	47.0	46.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	7.58	7.4	7.4	---
Viscosity Index (VI)	Scale	ASTM D2270*	125	120	121	---

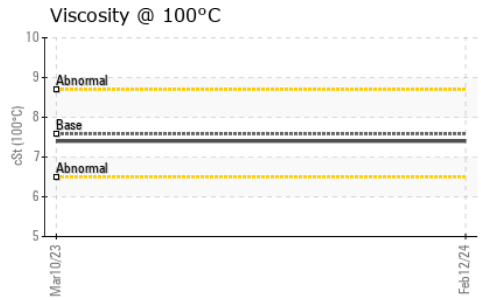
Water (KF)



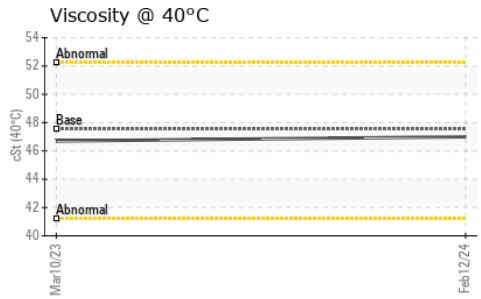
Additives



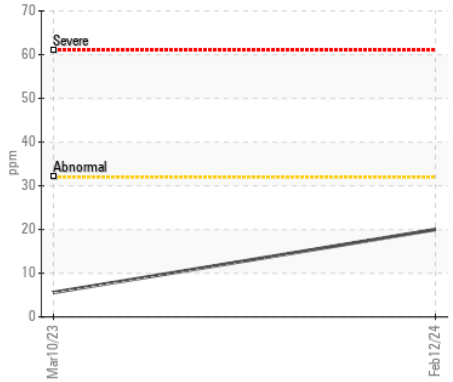
Viscosity @ 100°C



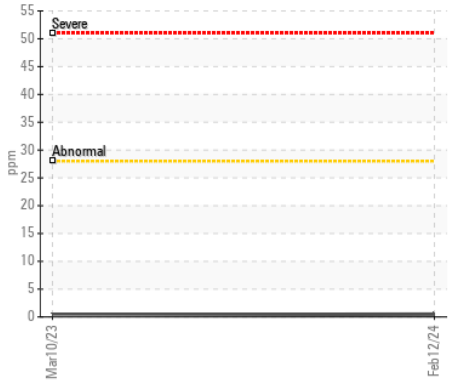
Viscosity @ 40°C



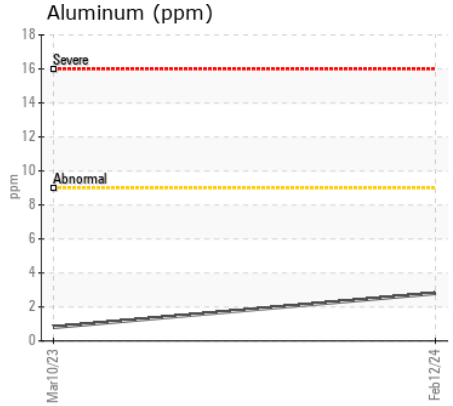
Iron (ppm)



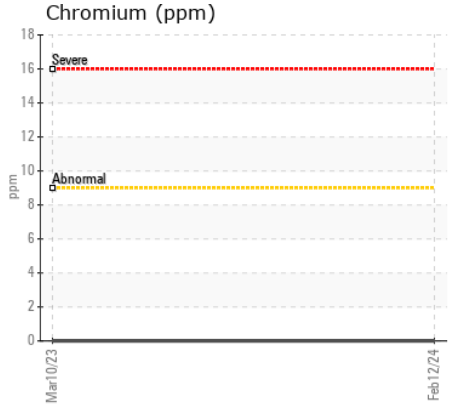
Lead (ppm)



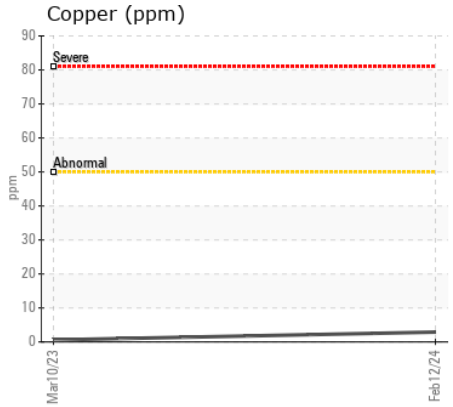
Aluminum (ppm)



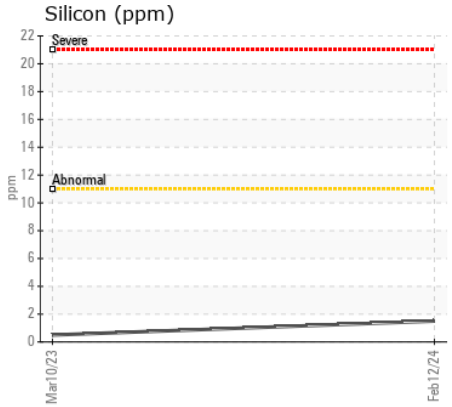
Chromium (ppm)



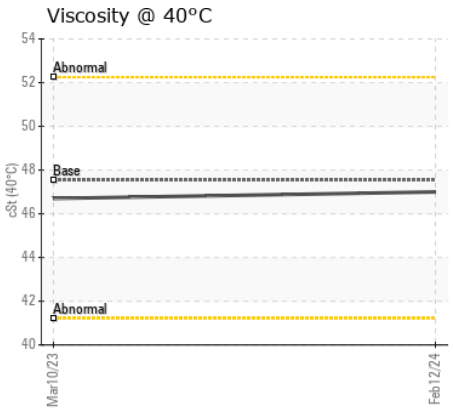
Copper (ppm)



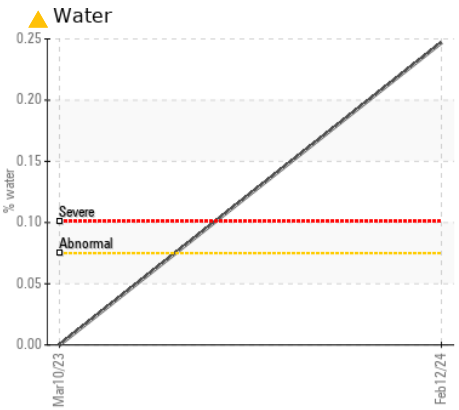
Silicon (ppm)



Viscosity @ 40°C



Water



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0072411 **Received** : 28 Feb 2024
Lab Number : 02618713 **Tested** : 29 Feb 2024
Unique Number : 5735823 **Diagnosed** : 01 Mar 2024 - 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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