



Machine Id
JOHN DEERE 8360MT 8360
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

Iron ppm levels are abnormal. Light concentration of visible metal present. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

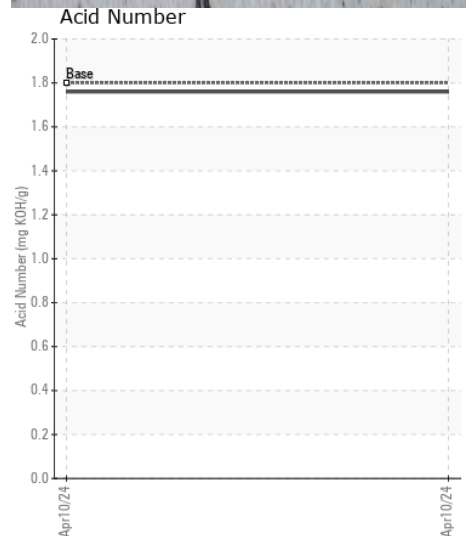
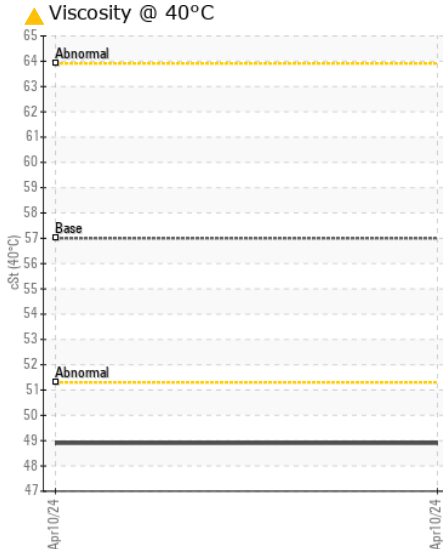
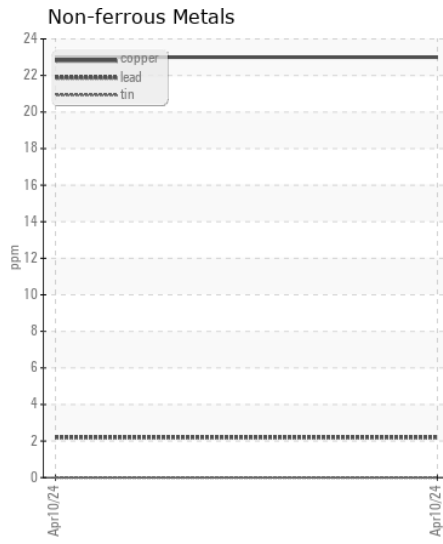
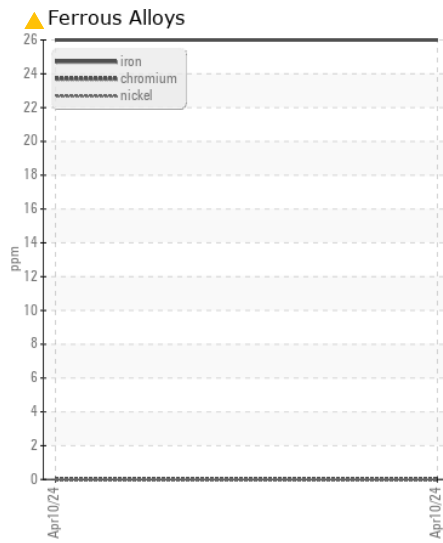
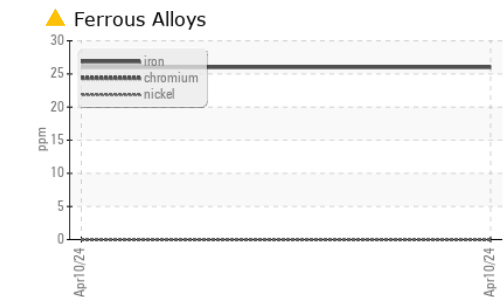
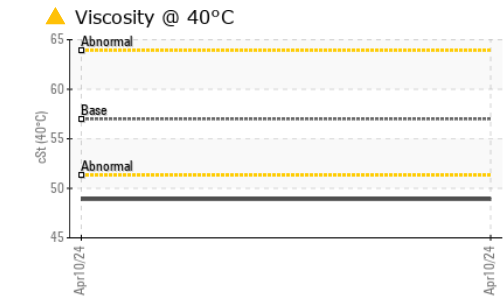
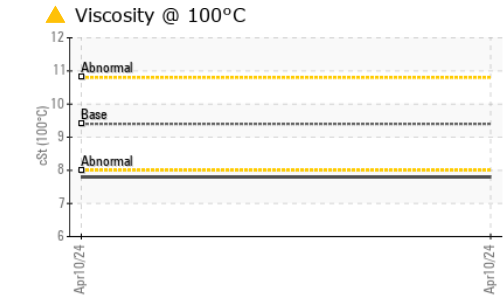
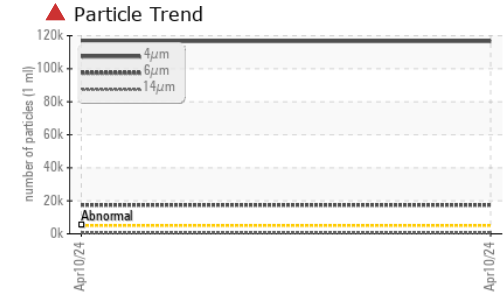
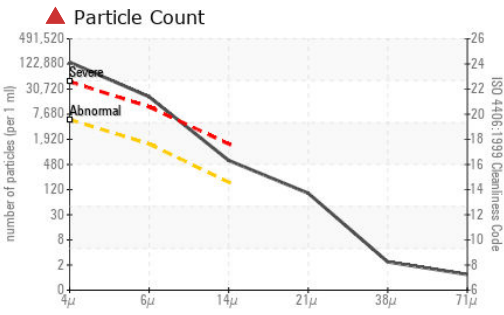
CONTAMINATION

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 75W80 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0076075	---	---
Sample Date		Client Info		10 Apr 2024	---	---
Machine Age	hrs	Client Info		3200	---	---
Oil Age	hrs	Client Info		1500	---	---
Filter Age	hrs	Client Info		750	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184*		0	---	---
Iron	ppm	ASTM D5185(m)	>20	▲ 26	---	---
Chromium	ppm	ASTM D5185(m)	>10	0	---	---
Nickel	ppm	ASTM D5185(m)	>10	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>10	1	---	---
Lead	ppm	ASTM D5185(m)	>10	2	---	---
Copper	ppm	ASTM D5185(m)	>75	23	---	---
Tin	ppm	ASTM D5185(m)	>10	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	▲ VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>20	7	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water		WC Method	>0.1	NEG	---	---
Particles >4µm		ASTM D7647	>5000	▲ 116644	---	---
Particles >6µm		ASTM D7647	>1300	▲ 17431	---	---
Particles >14µm		ASTM D7647	>160	▲ 527	---	---
Particles >21µm		ASTM D7647	>40	▲ 87	---	---
Particles >38µm		ASTM D7647	>10	2	---	---
Particles >71µm		ASTM D7647	>3	1	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/21/16	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)	6	21	---	---
Barium	ppm	ASTM D5185(m)	0	<1	---	---
Molybdenum	ppm	ASTM D5185(m)	0	<1	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	145	81	---	---
Calcium	ppm	ASTM D5185(m)	3570	3503	---	---
Phosphorus	ppm	ASTM D5185(m)	1290	1001	---	---
Zinc	ppm	ASTM D5185(m)	1640	1198	---	---
Sulfur	ppm	ASTM D5185(m)		3147	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	1.8	1.76	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	57.0	▲ 48.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.4	▲ 7.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		127	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0076075 **Received** : 19 Apr 2024
Lab Number : **02630212** **Tested** : 22 Apr 2024
Unique Number : 5763344 **Diagnosed** : 22 Apr 2024 - Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, PQ, PrtFilter, TAN Man, VI)

WEST HILL FARMS
 BOX 224
 MIAMI, MB
 CA R0G 1H0
 Contact: Don Hill

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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F: