



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

RONALD E. WATERS FARMS

Machine Id

JOHN DEERE S670 JOHN DEERE S670 COMBINE (S/N 1H0S670SKD0756593)

Component

Gear Case

Fluid

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0908519	---	---
Sample Date		Client Info		22 Feb 2024	---	---
Machine Age	hrs	Client Info		1857	---	---
Oil Age	hrs	Client Info		1857	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		21	---	---
Iron	ppm	ASTM D5185m	>200	35	---	---
Chromium	ppm	ASTM D5185m	>5	<1	---	---
Nickel	ppm	ASTM D5185m	>5	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>5	5	---	---
Lead	ppm	ASTM D5185m	>5	2	---	---
Copper	ppm	ASTM D5185m	>15	9	---	---
Tin	ppm	ASTM D5185m	>5	1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

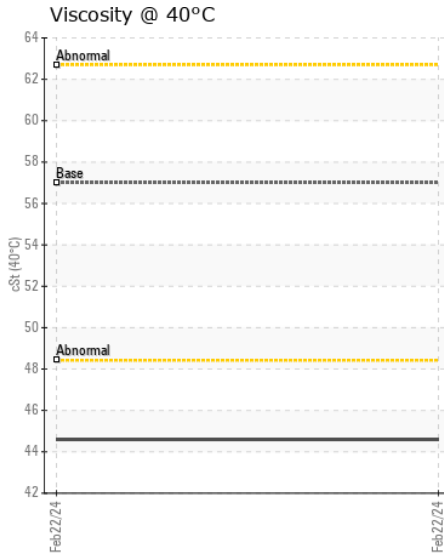
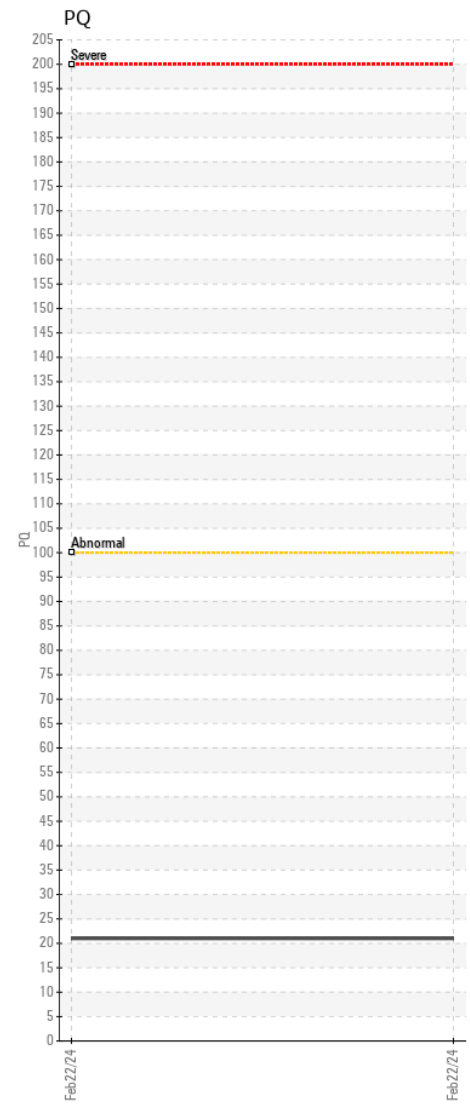
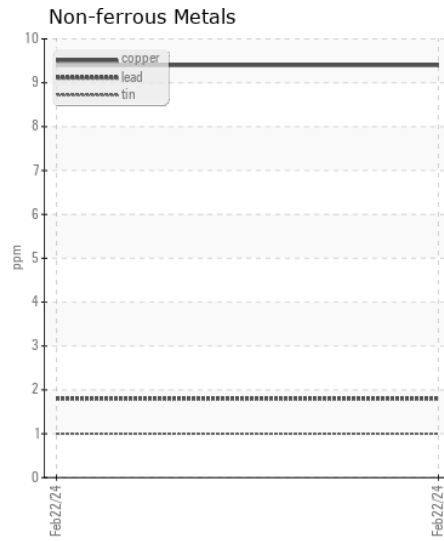
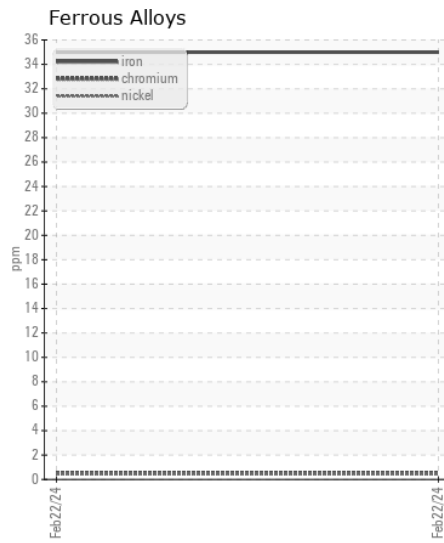
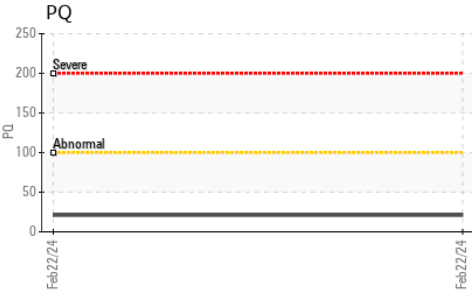
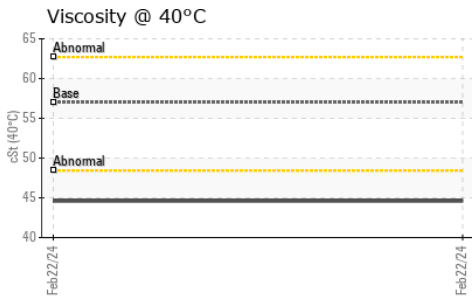
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	15	---	---
Potassium	ppm	ASTM D5185m	>20	6	---	---
Water		WC Method	>0.2	NEG	---	---
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	>0.2	NEG	---	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	---	---
Boron	ppm	ASTM D5185m	6	3	---	---
Barium	ppm	ASTM D5185m	0	6	---	---
Molybdenum	ppm	ASTM D5185m	0	2	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m	145	80	---	---
Calcium	ppm	ASTM D5185m	3570	3055	---	---
Phosphorus	ppm	ASTM D5185m	1290	909	---	---
Zinc	ppm	ASTM D5185m	1640	1105	---	---
Sulfur	ppm	ASTM D5185m		3908	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	44.6	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0908519 **Received** : 23 Feb 2024
Lab Number : 06099332 **Tested** : 26 Feb 2024
Unique Number : 10897562 **Diagnosed** : 27 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

QUALITY EQUIPMENT

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