



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
Store 2 - Beaver [103625]
Machine Id
JOHN DEERE 350G 1FF350GXVEF810462
Component
Left Propel Gearbox
Fluid
JOHN DEERE HY-GARD HYD/TRANS (2 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please note that this is a corrected copy for data entry updates.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0011950	LECP189662	---
Sample Date		Client Info		15 May 2020	23 Jul 2018	---
Machine Age	hrs	Client Info		6487	4570	---
Oil Age	hrs	Client Info		1917	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	SEVERE	---

WEAR

Moderate concentration of visible metal present. Gear wear is indicated.

PQ		ASTM D8184		575	534	---
Iron	ppm	ASTM D5185m	>1250	▲ 2513	▲ 2419	---
Chromium	ppm	ASTM D5185m		▲ 19	▲ 25	---
Nickel	ppm	ASTM D5185m		4	4	---
Titanium	ppm	ASTM D5185m		10	8	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m		▲ 136	▲ 68	---
Lead	ppm	ASTM D5185m		<1	0	---
Copper	ppm	ASTM D5185m		6	4	---
Tin	ppm	ASTM D5185m		0	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	▲ MODER	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

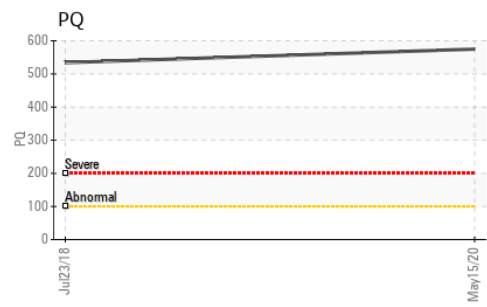
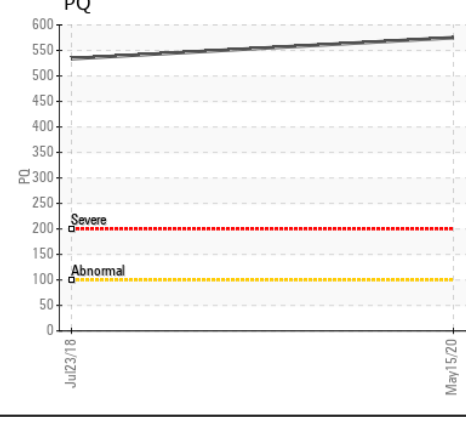
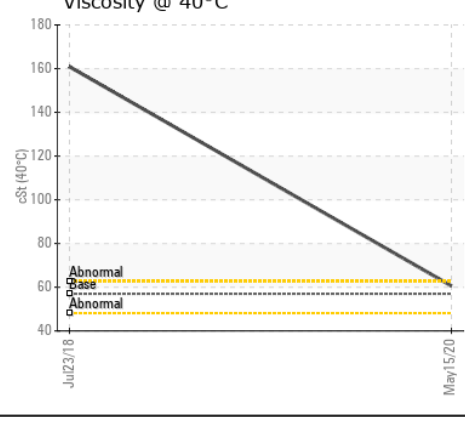
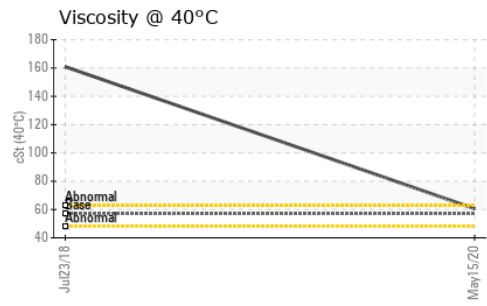
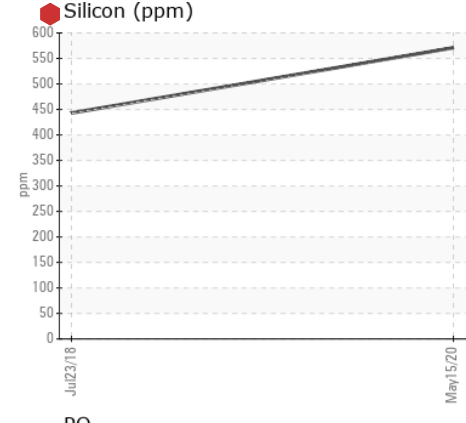
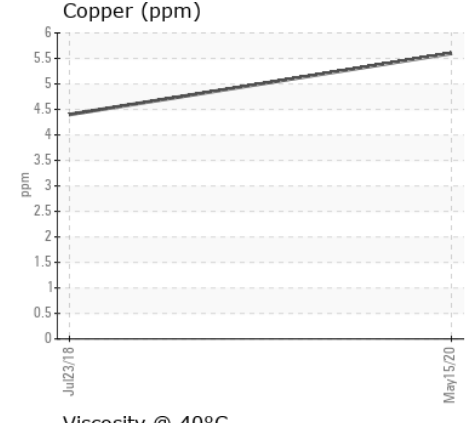
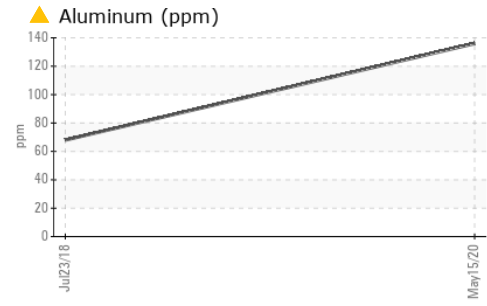
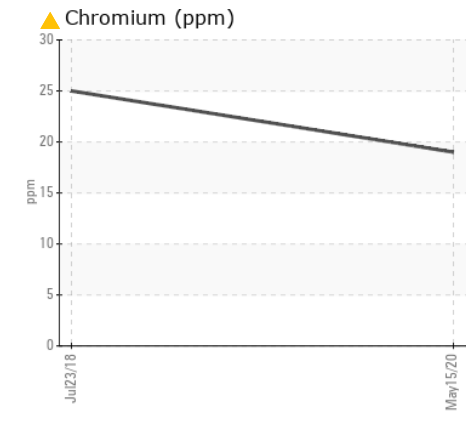
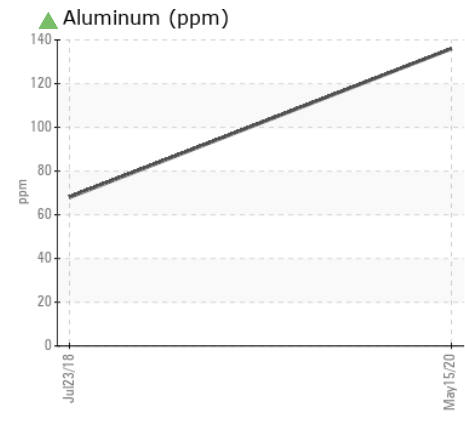
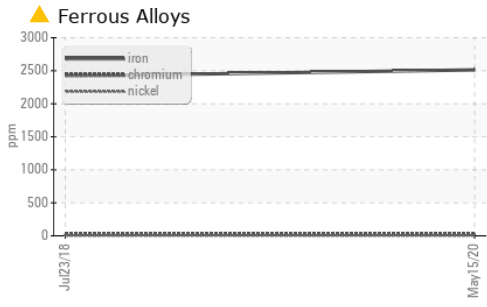
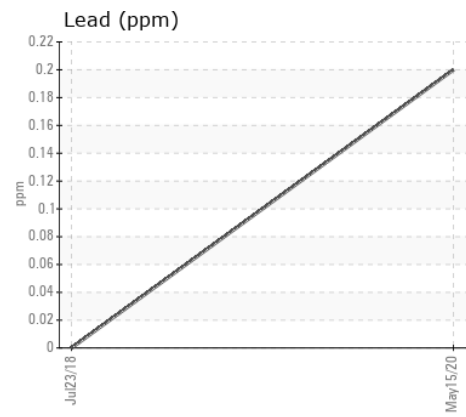
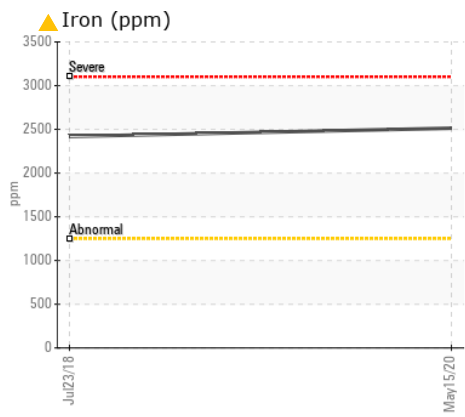
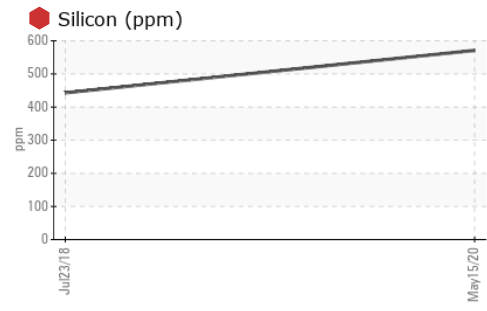
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		◆ 571	◆ 443	---
Potassium	ppm	ASTM D5185m	>20	34	12	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		4	3	---
Boron	ppm	ASTM D5185m	6	108	102	---
Barium	ppm	ASTM D5185m	0	2	2	---
Molybdenum	ppm	ASTM D5185m	0	0	0	---
Manganese	ppm	ASTM D5185m		21	27	---
Magnesium	ppm	ASTM D5185m	145	88	4	---
Calcium	ppm	ASTM D5185m	3570	2963	32	---
Phosphorus	ppm	ASTM D5185m	1290	1036	775	---
Zinc	ppm	ASTM D5185m	1640	1016	29	---
Sulfur	ppm	ASTM D5185m		6501	17252	---
Visc @ 40°C	cSt	ASTM D445	57.0	60.6	160.9	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0011950 **Received** : 18 May 2020
Lab Number : 04979721 **Tested** : 02 Jun 2020
Unique Number : 9034868 **Diagnosed** : 02 Jun 2020 - Doug Bogart
Test Package : MOBCE (Additional Tests: PQ)

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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)