



OIL ANALYSIS REPORT

WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION



Area
Store 3 - Norton [140465]
Machine Id
JOHN DEERE 350G 1FF350GXAKF814122
Component
Right Propel Gearbox
Fluid
JOHN DEERE GL-5 80W90 (2 GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041103	LEC0034293	LEC0026925
Sample Date		Client Info		29 Jun 2023	02 Nov 2022	30 Dec 2021
Machine Age	hrs	Client Info		1519	929	437
Oil Age	hrs	Client Info		590	492	437
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		288	86	117
Iron	ppm	ASTM D5185m	>1250	522	141	225
Chromium	ppm	ASTM D5185m	>10	7	3	4
Nickel	ppm	ASTM D5185m	>10	1	0	0
Titanium	ppm	ASTM D5185m		6	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m		▲ 118	5	4
Lead	ppm	ASTM D5185m		0	0	<1
Copper	ppm	ASTM D5185m		2	<1	<1
Tin	ppm	ASTM D5185m		0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

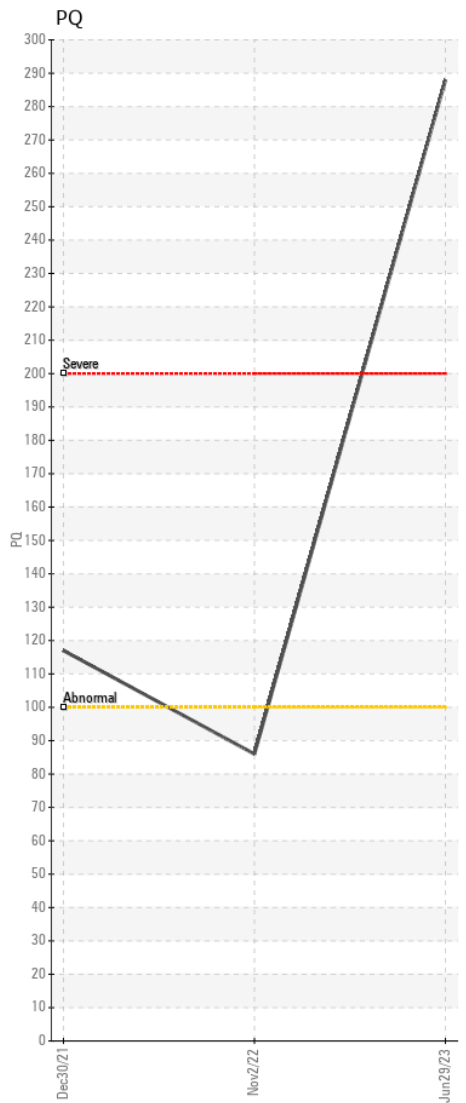
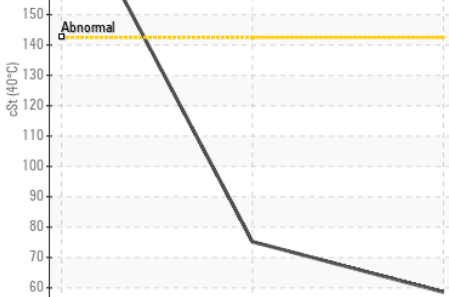
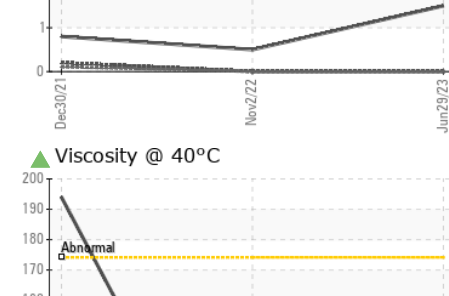
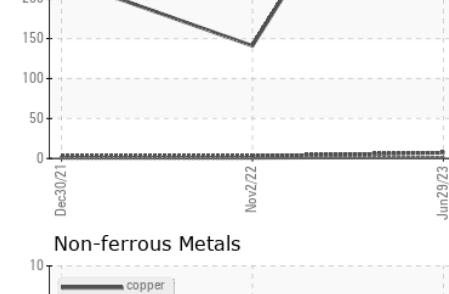
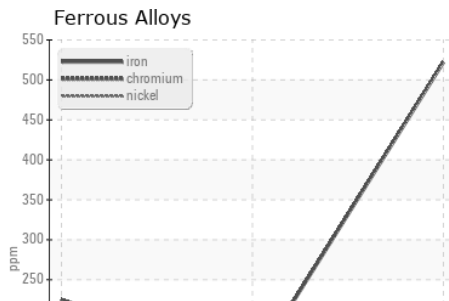
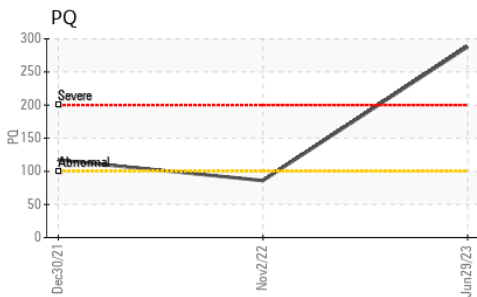
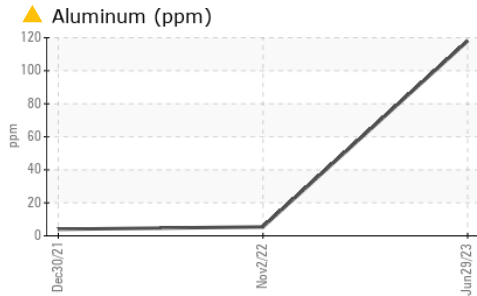
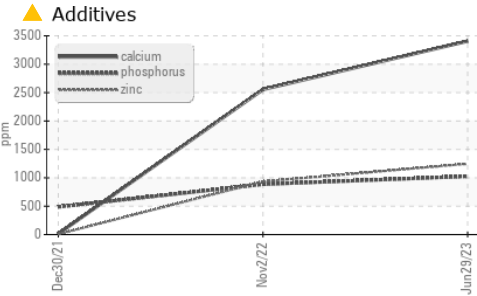
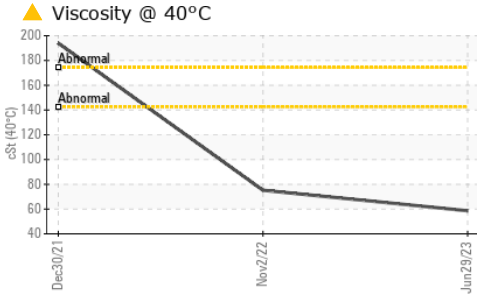
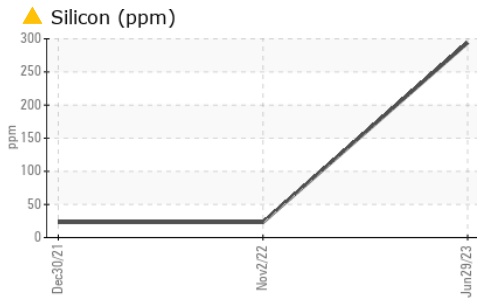
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 294	23	23
Potassium	ppm	ASTM D5185m	>20	29	3	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		4	0	0
Boron	ppm	ASTM D5185m		11	34	81
Barium	ppm	ASTM D5185m		0	4	3
Molybdenum	ppm	ASTM D5185m		2	3	<1
Manganese	ppm	ASTM D5185m		8	3	5
Magnesium	ppm	ASTM D5185m		▲ 107	▲ 79	<1
Calcium	ppm	ASTM D5185m		▲ 3407	▲ 2555	14
Phosphorus	ppm	ASTM D5185m		▲ 1026	▲ 886	487
Zinc	ppm	ASTM D5185m		▲ 1246	▲ 933	6
Sulfur	ppm	ASTM D5185m		▲ 5324	▲ 7500	13858
Visc @ 40°C	cSt	ASTM D445		▲ 58.6	▲ 75.2	194



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041103 **Received** : 03 Jul 2023
Lab Number : 05889389 **Tested** : 06 Jul 2023
Unique Number : 10539872 **Diagnosed** : 06 Jul 2023 - Angela Borella
Test Package : CONST (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)