



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
Store 8 - Pikeville [RO#152619]
Machine Id
JOHN DEERE 160G 1FF160GXAKF057758
Component
Left Propel Gearbox
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0051174	LEC0042600	LEC0040608
Sample Date		Client Info		27 Jun 2024	12 Dec 2023	16 May 2023
Machine Age	hrs	Client Info		3105	2500	1890
Oil Age	hrs	Client Info		605	610	551
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				SEVERE	ABNORMAL	SEVERE

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		2061	796	851
Iron	ppm	ASTM D5185m	>1250	▲ 2912	1006	▲ 1295
Chromium	ppm	ASTM D5185m	>10	▲ 22	8	11
Nickel	ppm	ASTM D5185m	>10	8	2	2
Titanium	ppm	ASTM D5185m		23	5	15
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m		● 292	● 53	● 188
Lead	ppm	ASTM D5185m		1	<1	<1
Copper	ppm	ASTM D5185m		5	1	<1
Tin	ppm	ASTM D5185m		0	<1	2
Vanadium	ppm	ASTM D5185m		1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

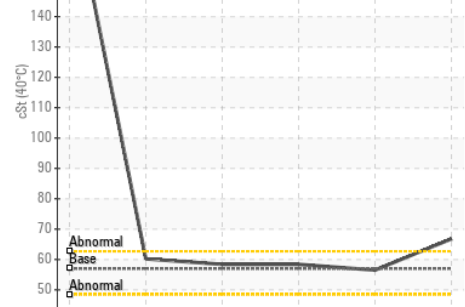
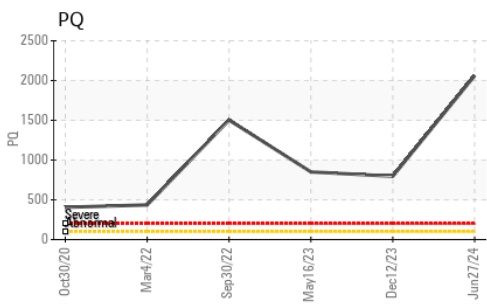
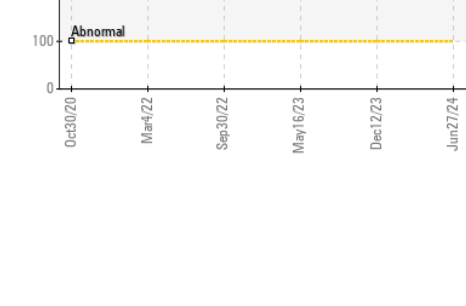
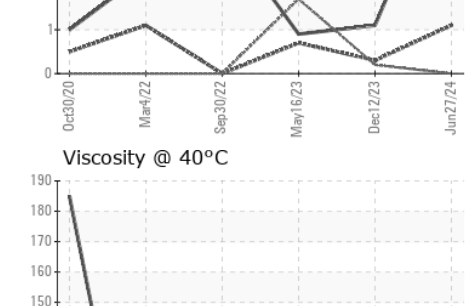
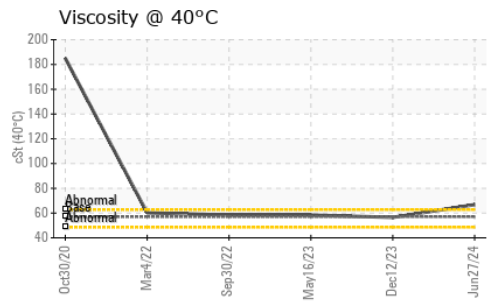
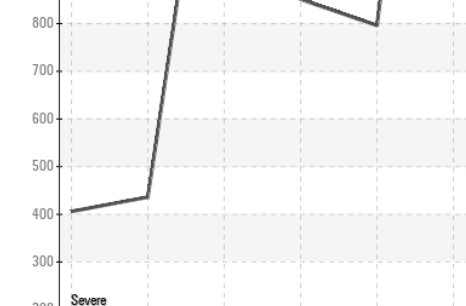
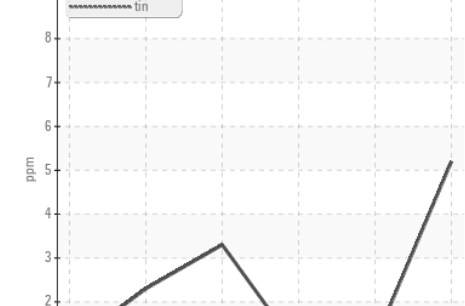
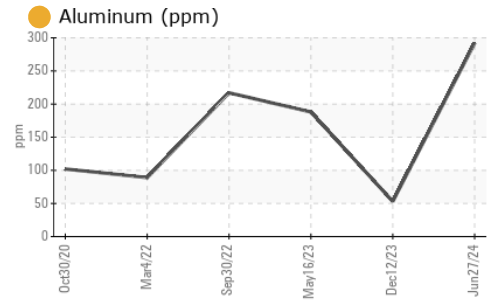
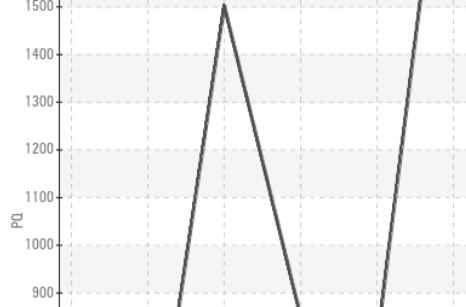
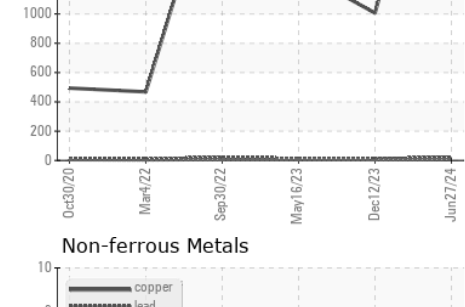
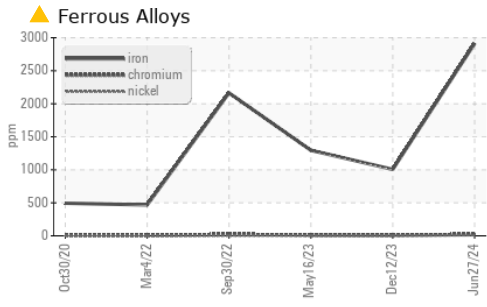
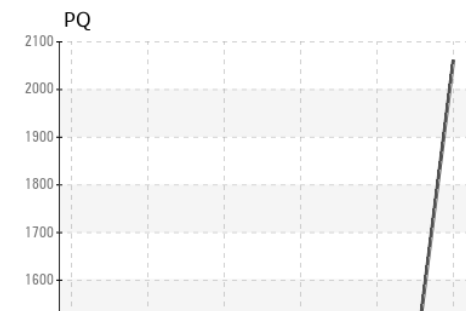
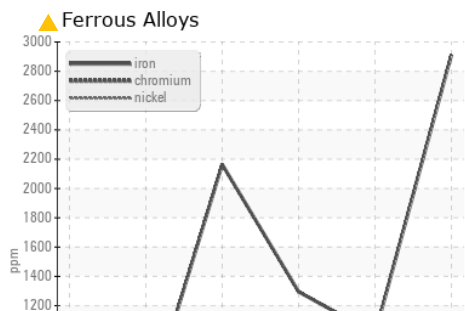
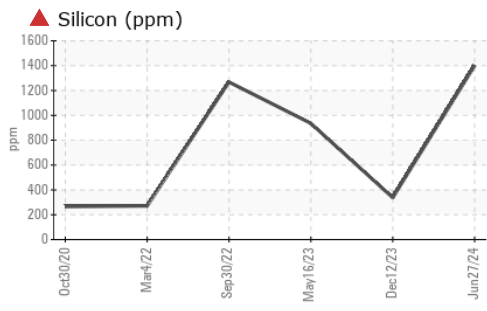
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 1399	▲ 337	▲ 935
Potassium	ppm	ASTM D5185m	>20	81	17	53
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
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	0.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		9	2	5
Boron	ppm	ASTM D5185m	6	<1	6	2
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	0	4	4	2
Manganese	ppm	ASTM D5185m		23	8	13
Magnesium	ppm	ASTM D5185m	145	118	122	109
Calcium	ppm	ASTM D5185m	3570	3651	3351	3504
Phosphorus	ppm	ASTM D5185m	1290	1077	1054	1037
Zinc	ppm	ASTM D5185m	1640	1254	1277	1270
Sulfur	ppm	ASTM D5185m		4109	3605	4216
Visc @ 40°C	cSt	ASTM D445	57.0	66.8	56.5	58.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0051174 **Received** : 05 Jul 2024
Lab Number : 06228965 **Tested** : 08 Jul 2024
Unique Number : 11112458 **Diagnosed** : 08 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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Certificate L2367
 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)