



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
Store 9 - Marietta
Machine Id
JOHN DEERE 160G 31-008 (S/N 1FF160GXPKF057333)
Component
Right Final Drive
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0032053	LEC0043935	LEC0032000
Sample Date		Client Info		26 Jun 2024	28 Sep 2023	23 Jul 2022
Machine Age	hrs	Client Info		3341	3122	0
Oil Age	hrs	Client Info		0	1122	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	None	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	138	126	45
Iron	ppm	ASTM D5185m	>750	90	227	37
Chromium	ppm	ASTM D5185m	>9	2	4	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		2	2	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>40	10	35	2
Lead	ppm	ASTM D5185m	>15	<1	<1	<1
Copper	ppm	ASTM D5185m	>40	1	0	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

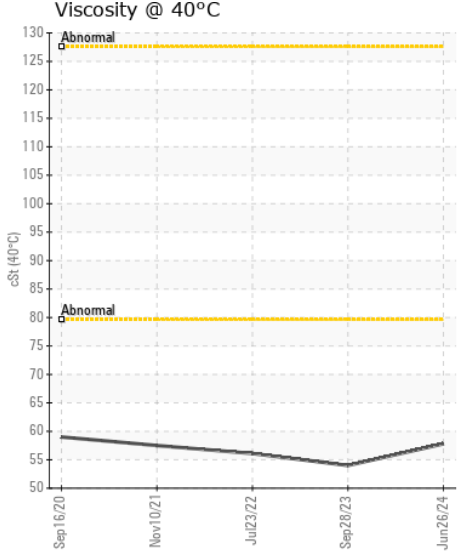
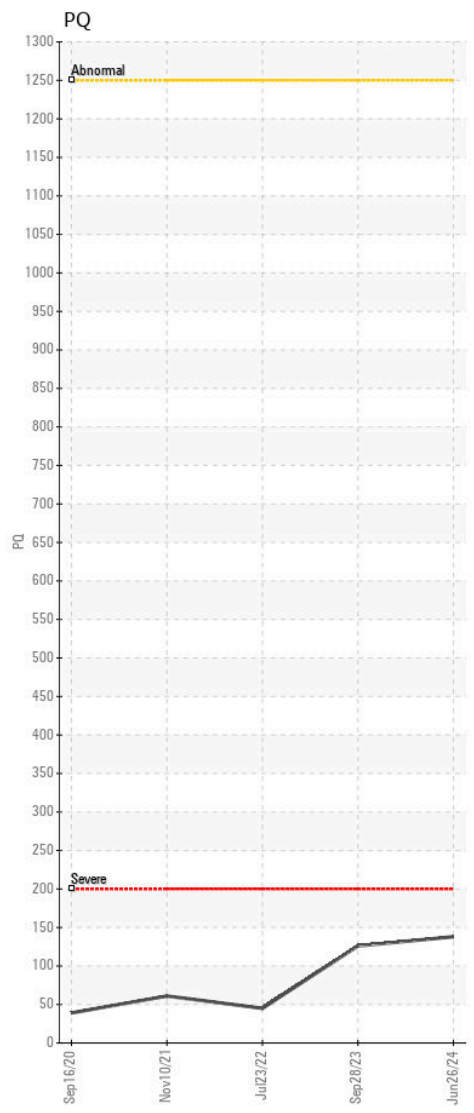
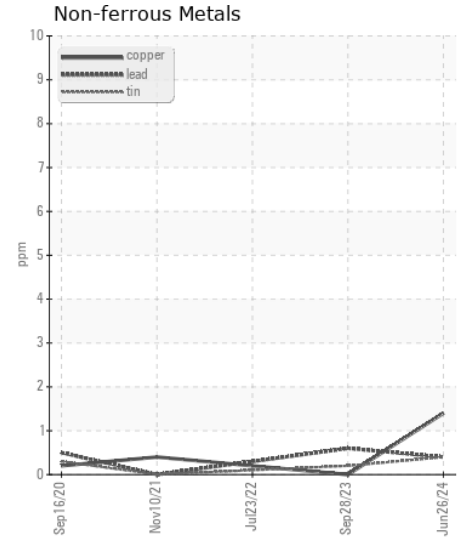
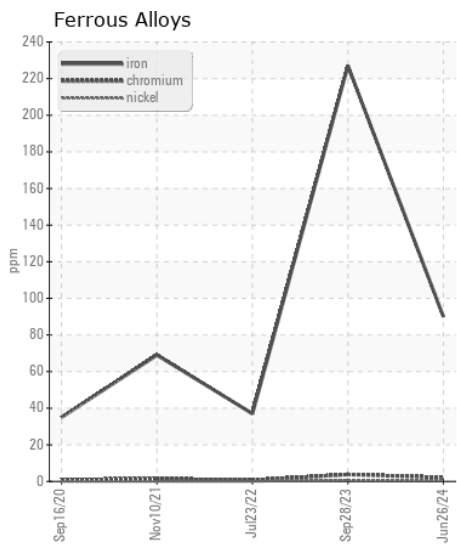
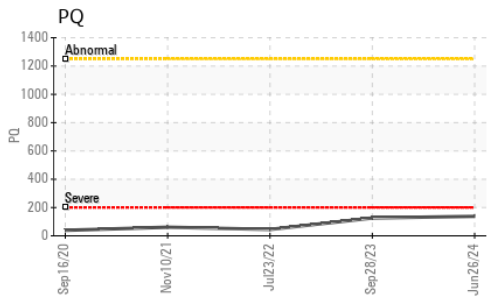
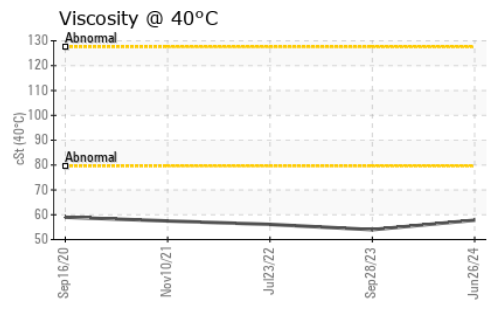
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	32	95	7
Potassium	ppm	ASTM D5185m	>20	6	9	2
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	LIGHT	MODER	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	1	1	0
Boron	ppm	ASTM D5185m		5	<1	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	<1	1
Manganese	ppm	ASTM D5185m		2	4	<1
Magnesium	ppm	ASTM D5185m		114	110	93
Calcium	ppm	ASTM D5185m		3528	3409	3283
Phosphorus	ppm	ASTM D5185m		1055	993	971
Zinc	ppm	ASTM D5185m		1301	1268	1170
Sulfur	ppm	ASTM D5185m		3801	3593	3459
Visc @ 40°C	cSt	ASTM D445		57.8	54.0	56.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0032053 **Received** : 05 Jul 2024
Lab Number : 06229324 **Tested** : 09 Jul 2024
Unique Number : 11112817 **Diagnosed** : 09 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

HAYDEN EXCAVATING
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 WAYNESBURG, PA
 US 15370
 Contact: ROBBIE
 rts2577@yahoo.com

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)