



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL



Area
Store 4 - Fairmont [RO# 152035]
Machine Id
JOHN DEERE 650J T0650JX133890
Component
Right Final Drive
Fluid
JOHN DEERE HY-GARD HYD/TRANS (9 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048369	LECP186329	LECP156465
Sample Date		Client Info		13 Jun 2024	22 Jan 2019	17 Apr 2015
Machine Age	hrs	Client Info		4152	3350	2462
Oil Age	hrs	Client Info		802	888	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	364	102	78.0
Iron	ppm	ASTM D5185m	>750	550	219	290
Chromium	ppm	ASTM D5185m	>9	6	4	5
Nickel	ppm	ASTM D5185m	>10	2	<1	<1
Titanium	ppm	ASTM D5185m		5	4	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	49	56	25
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>40	2	<1	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	MODER	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

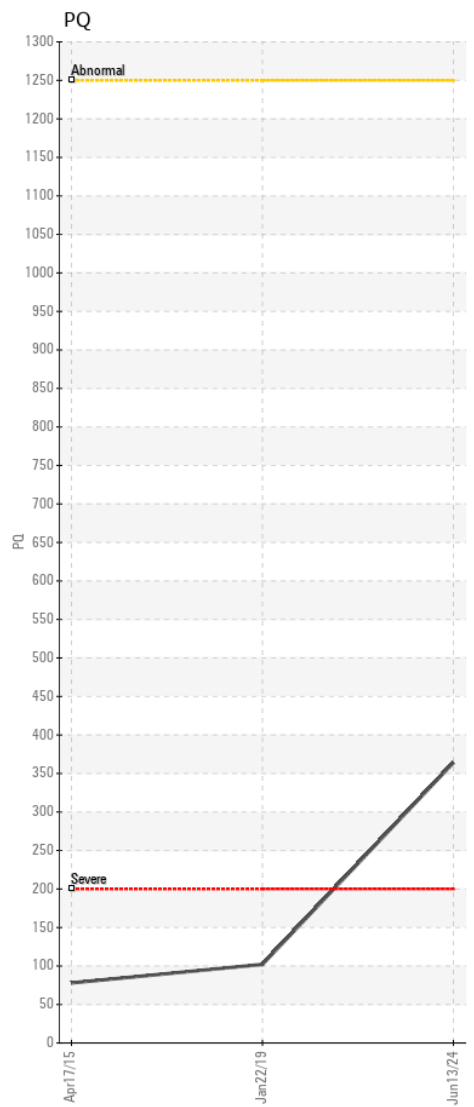
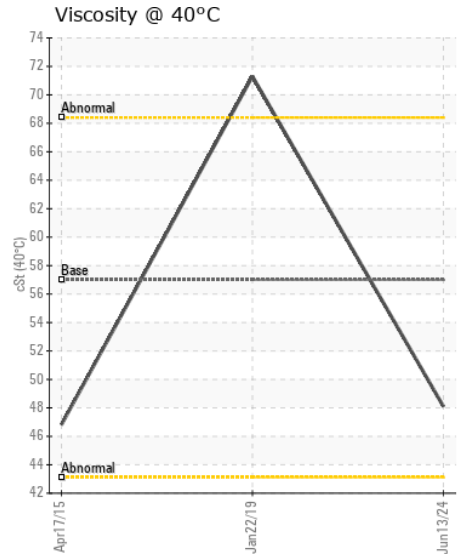
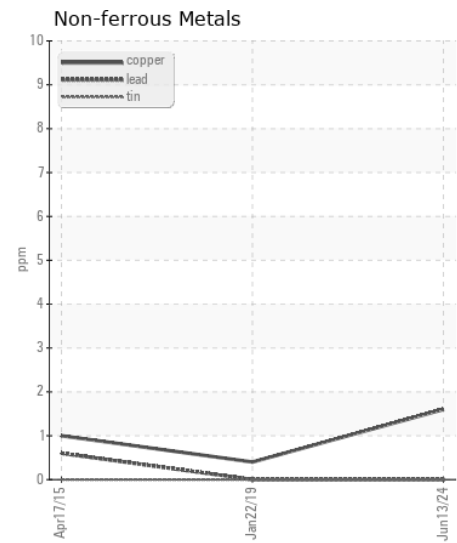
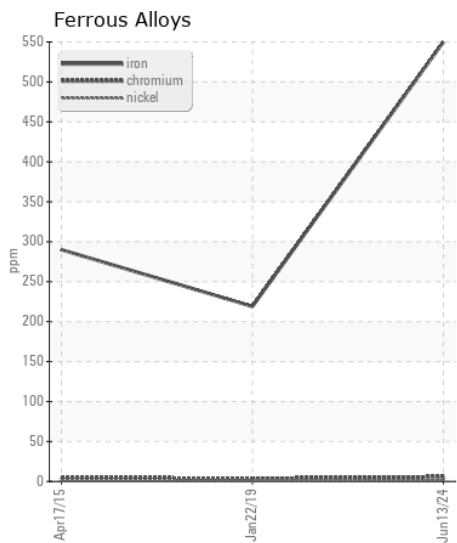
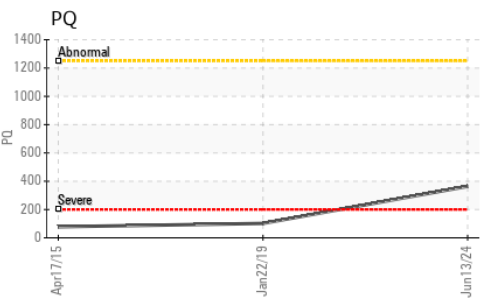
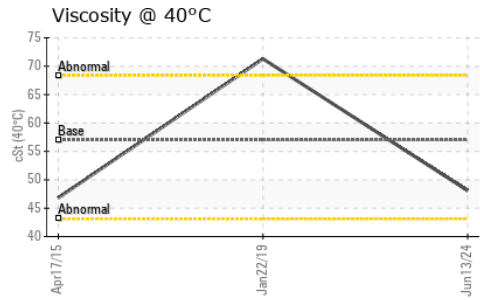
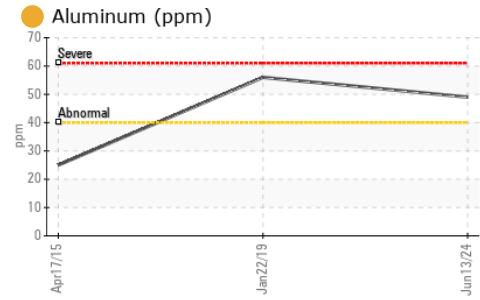
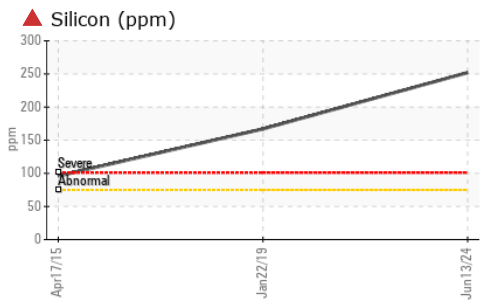
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	252	167	96
Potassium	ppm	ASTM D5185m	>20	18	14	32
Water		WC Method	>0.075	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	>0.075	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	6	5	7
Boron	ppm	ASTM D5185m	6	36	439	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	8	75	2
Manganese	ppm	ASTM D5185m		6	3	5
Magnesium	ppm	ASTM D5185m	145	124	348	86
Calcium	ppm	ASTM D5185m	3570	3485	1653	3536
Phosphorus	ppm	ASTM D5185m	1290	1072	1047	1084
Zinc	ppm	ASTM D5185m	1640	1251	1189	1226
Sulfur	ppm	ASTM D5185m		4156	3089	5726
Visc @ 40°C	cSt	ASTM D445	57.0	48.1	71.3	46.82



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048369 **Received** : 17 Jun 2024
Lab Number : 06212006 **Tested** : 18 Jun 2024
Unique Number : 11084870 **Diagnosed** : 19 Jun 2024 - Sean Felton
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)