



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[127285]

Machine Id
JOHN DEERE 670P 1FF670PALPF000032

Component
Pump Drive

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007932	WE0006871	WE0006354
Sample Date		Client Info		21 Jun 2024	11 Apr 2024	24 Jan 2024
Machine Age	hrs	Client Info		2524	1965	1485
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

The iron level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		28	30	25
Iron	ppm	ASTM D5185m	>151	▲ 178	136	96
Chromium	ppm	ASTM D5185m	>11	2	3	2
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>21	4	6	5
Lead	ppm	ASTM D5185m	>51	<1	<1	<1
Copper	ppm	ASTM D5185m	>51	1	1	0
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

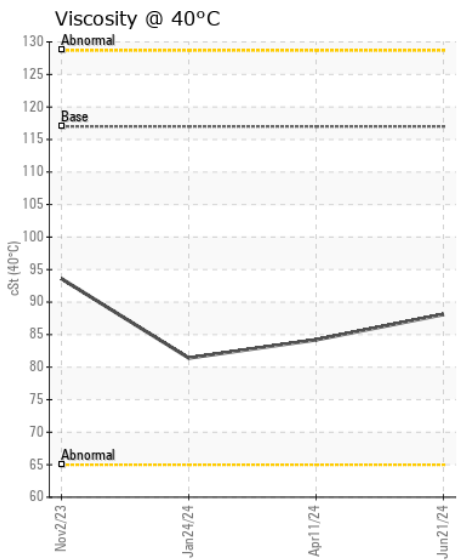
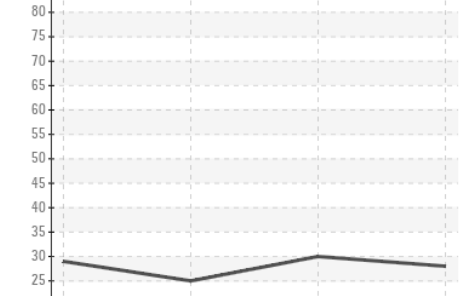
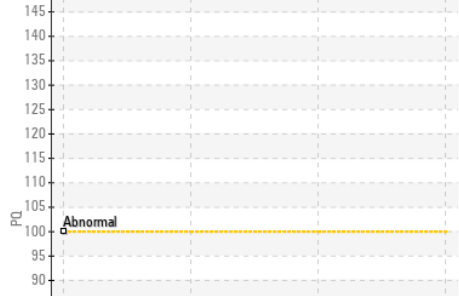
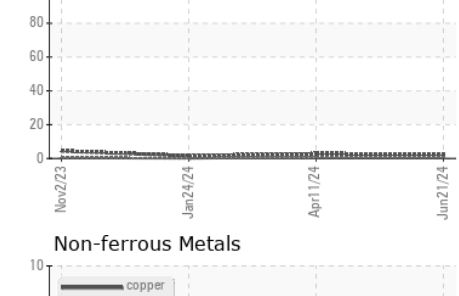
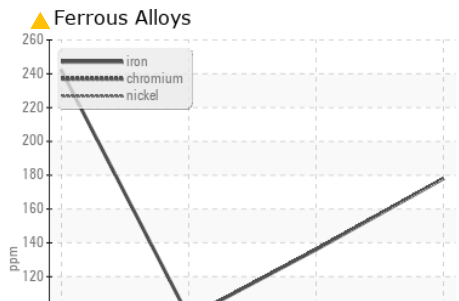
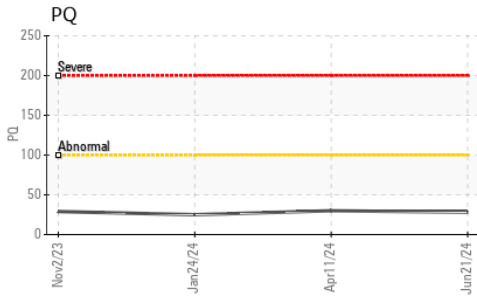
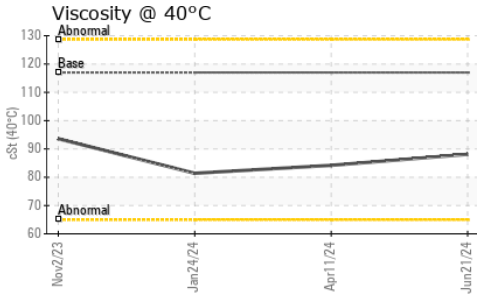
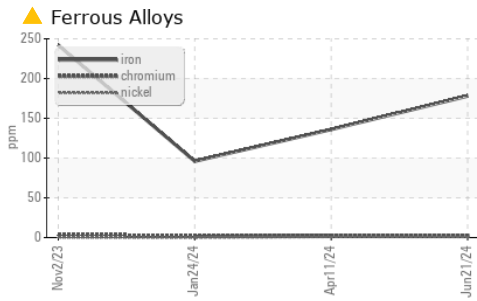
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	17	18	15
Potassium	ppm	ASTM D5185m	>20	3	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	2	4	4
Boron	ppm	ASTM D5185m		207	201	246
Barium	ppm	ASTM D5185m		8	8	6
Molybdenum	ppm	ASTM D5185m		187	204	186
Manganese	ppm	ASTM D5185m		6	4	3
Magnesium	ppm	ASTM D5185m		564	649	618
Calcium	ppm	ASTM D5185m		1800	1984	2108
Phosphorus	ppm	ASTM D5185m		827	926	912
Zinc	ppm	ASTM D5185m		908	1011	1014
Sulfur	ppm	ASTM D5185m		4834	3603	3304
Visc @ 40°C	cSt	ASTM D445	117	88.1	84.2	81.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WE0007932

Lab Number : 06219986

Unique Number : 11098183

Test Package : CONST (Additional Tests: PQ)

Received : 25 Jun 2024

Tested : 26 Jun 2024

Diagnosed : 26 Jun 2024 - Sean Felton

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT

P.O. BOX 412

NORTHPORT, AL

US 35476

Contact: PAMELA CLARK

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T: (205)339-0300

F:

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)