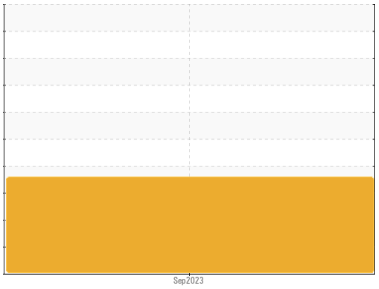
PROBLEM SUMMARY

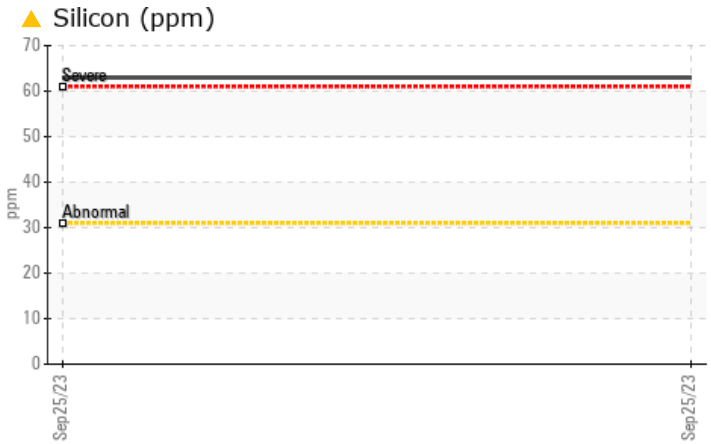
Sample Rating Trend



DIRT

Machine Id
JOHN DEERE 350P 1FF350PAKNF000420
Component
Pump Drive
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time.
No corrective action is recommended at this time.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Boron	ppm	ASTM D5185m		▲ **64**	---	---
Magnesium	ppm	ASTM D5185m		▲ **15**	---	---
Calcium	ppm	ASTM D5185m		▲ **4105**	---	---
Phosphorus	ppm	ASTM D5185m		▲ **1163**	---	---
Sulfur	ppm	ASTM D5185m		▲ **8802**	---	---
Silicon	ppm	ASTM D5185m	>31	▲ **63**	---	---

Customer Id: RWMNEW
Sample No.: JR0182286
Lab Number: 05961372
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
Sean Felton +1 919-379-4092
sfelton@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

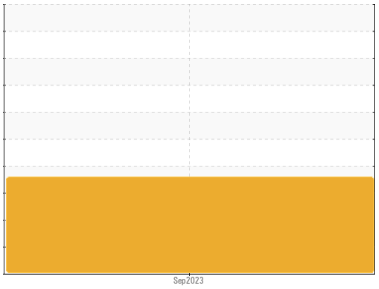
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
JOHN DEERE 350P 1FF350PAKNF000420
Component
Pump Drive
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)

DIAGNOSIS

Recommendation
No corrective action is recommended at this time.
No corrective action is recommended at this time.

Wear
All component wear rates are normal.

Contamination
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition
Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**JR0182286**	---	---
Sample Date		Client Info		**25 Sep 2023**	---	---
Machine Age	hrs	Client Info		**721**	---	---
Oil Age	hrs	Client Info		**721**	---	---
Oil Changed		Client Info		**Not Changd**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**18**	---	---
Iron	ppm	ASTM D5185m	>151	**71**	---	---
Chromium	ppm	ASTM D5185m	>11	**2**	---	---
Nickel	ppm	ASTM D5185m	>10	**0**	---	---
Titanium	ppm	ASTM D5185m		**<1**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m	>21	**2**	---	---
Lead	ppm	ASTM D5185m	>51	**0**	---	---
Copper	ppm	ASTM D5185m	>51	**<1**	---	---
Tin	ppm	ASTM D5185m	>4	**<1**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

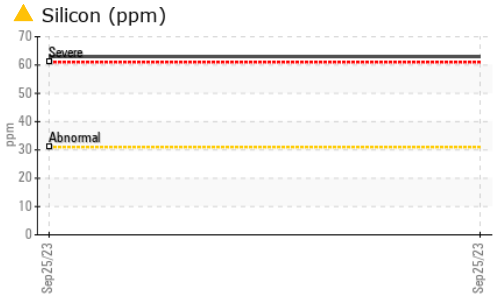
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		▲ **64**	---	---
Barium	ppm	ASTM D5185m		**6**	---	---
Molybdenum	ppm	ASTM D5185m		**108**	---	---
Manganese	ppm	ASTM D5185m		**5**	---	---
Magnesium	ppm	ASTM D5185m		▲ **15**	---	---
Calcium	ppm	ASTM D5185m		▲ **4105**	---	---
Phosphorus	ppm	ASTM D5185m		▲ **1163**	---	---
Zinc	ppm	ASTM D5185m		**1330**	---	---
Sulfur	ppm	ASTM D5185m		▲ **8802**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>31	▲ **63**	---	---
Sodium	ppm	ASTM D5185m	>51	**2**	---	---
Potassium	ppm	ASTM D5185m	>20	**2**	---	---

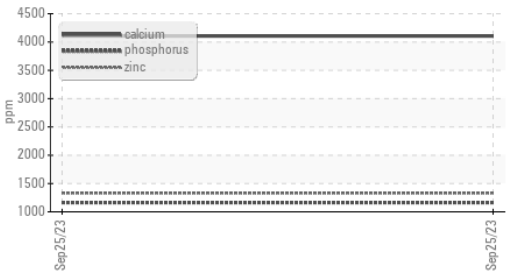
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.1	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

OIL ANALYSIS REPORT

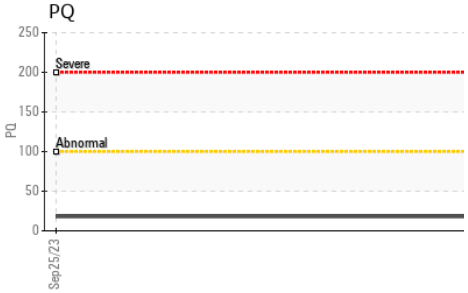
Silicon (ppm)



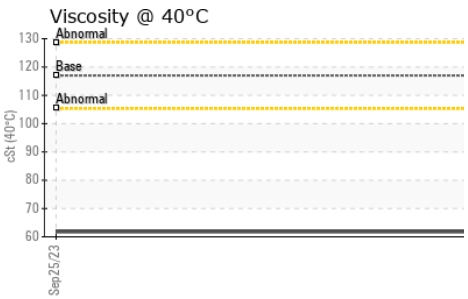
Additives



PQ



Viscosity @ 40°C

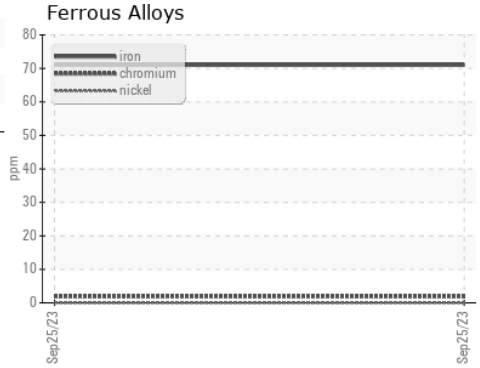


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	117	**61.8**	---	---

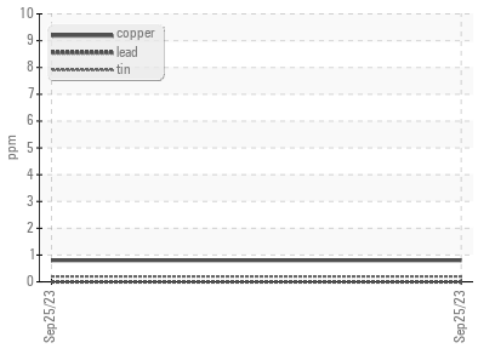
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

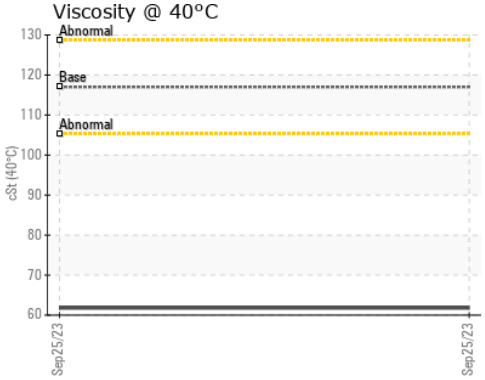
Ferrous Alloys



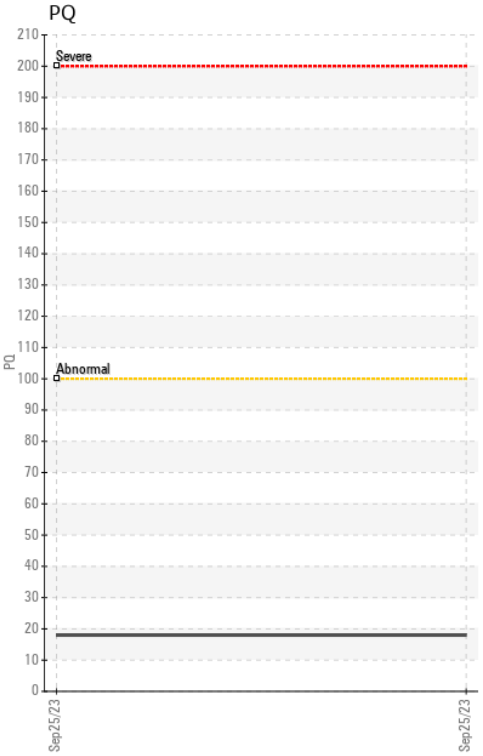
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0182286 **Received** : 26 Sep 2023
Lab Number : 05961372 **Diagnosed** : 27 Sep 2023
Unique Number : 10662585 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: PQ)

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)

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