



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[38542]

Machine Id

JOHN DEERE 245G 1FF245GXLHF800470

Component

Pump Drive

Fluid

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0160214	JR0132140	JR0111472
Sample Date		Client Info		16 Feb 2023	26 May 2022	02 Nov 2021
Machine Age	hrs	Client Info		4440	3958	3468
Oil Age	hrs	Client Info		482	3035	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		57	26	28
Iron	ppm	ASTM D5185m	>151	129	54	48
Chromium	ppm	ASTM D5185m	>11	2	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	2
Aluminum	ppm	ASTM D5185m	>21	▲ 14	6	6
Lead	ppm	ASTM D5185m	>51	<1	<1	<1
Copper	ppm	ASTM D5185m	>51	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

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

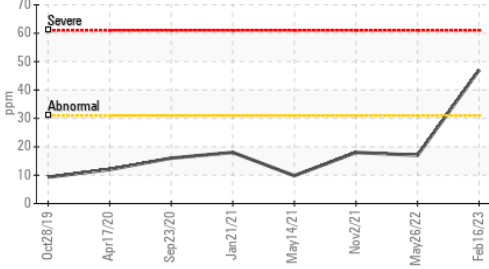
Silicon	ppm	ASTM D5185m	>31	▲ 47	17	18
Potassium	ppm	ASTM D5185m	>20	3	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

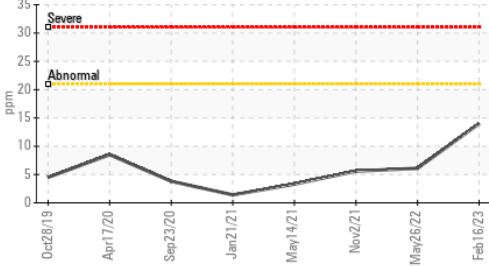
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	3	3	0
Boron	ppm	ASTM D5185m		316	331	320
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		247	245	287
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		775	815	892
Calcium	ppm	ASTM D5185m		1415	1433	1621
Phosphorus	ppm	ASTM D5185m		866	914	1031
Zinc	ppm	ASTM D5185m		996	1024	1142
Sulfur	ppm	ASTM D5185m		3829	3295	3041
Visc @ 40°C	cSt	ASTM D445	117	79.5	75.7	78.6

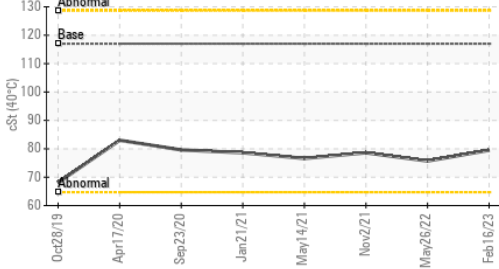
▲ Silicon (ppm)



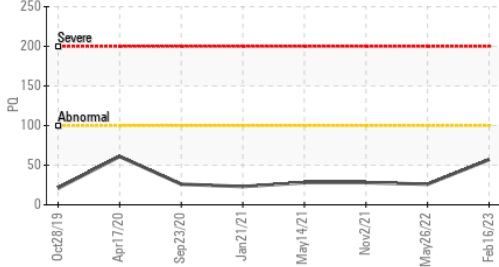
▲ Aluminum (ppm)



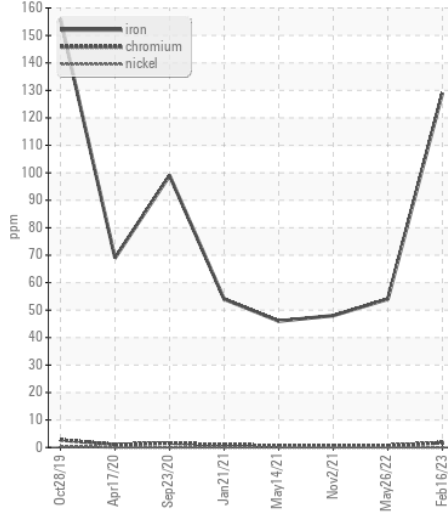
Viscosity @ 40°C



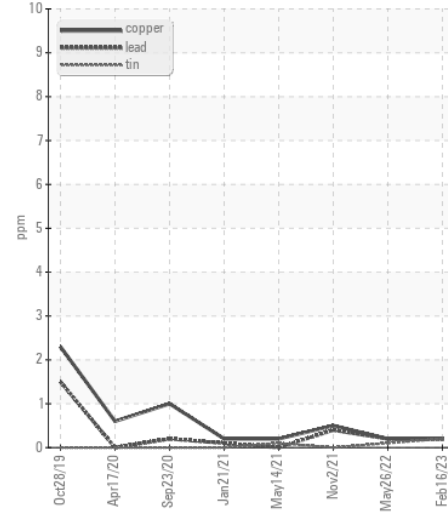
PQ



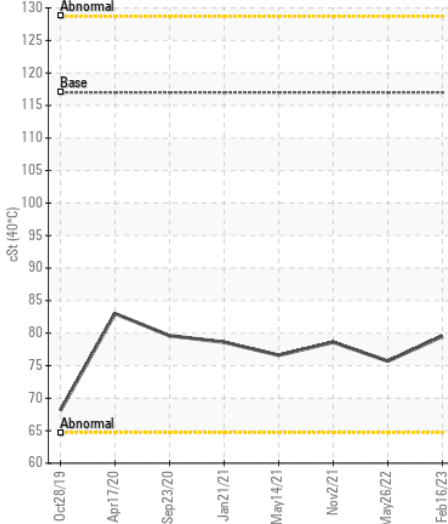
Ferrous Alloys



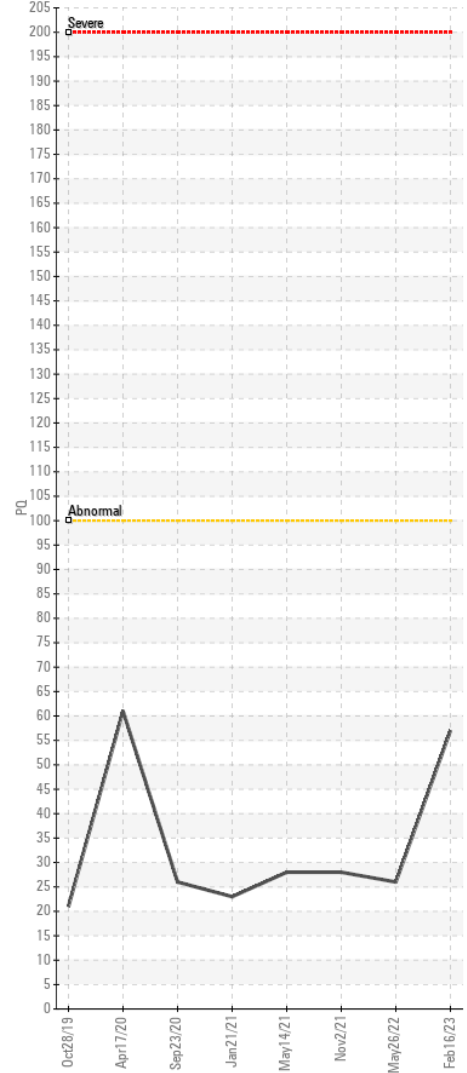
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0160214 **Received** : 20 Feb 2023
Lab Number : 05772297 **Diagnosed** : 21 Feb 2023
Unique Number : 10346914 **Diagnostician** : Jonathan Hester
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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