

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL NORMAL

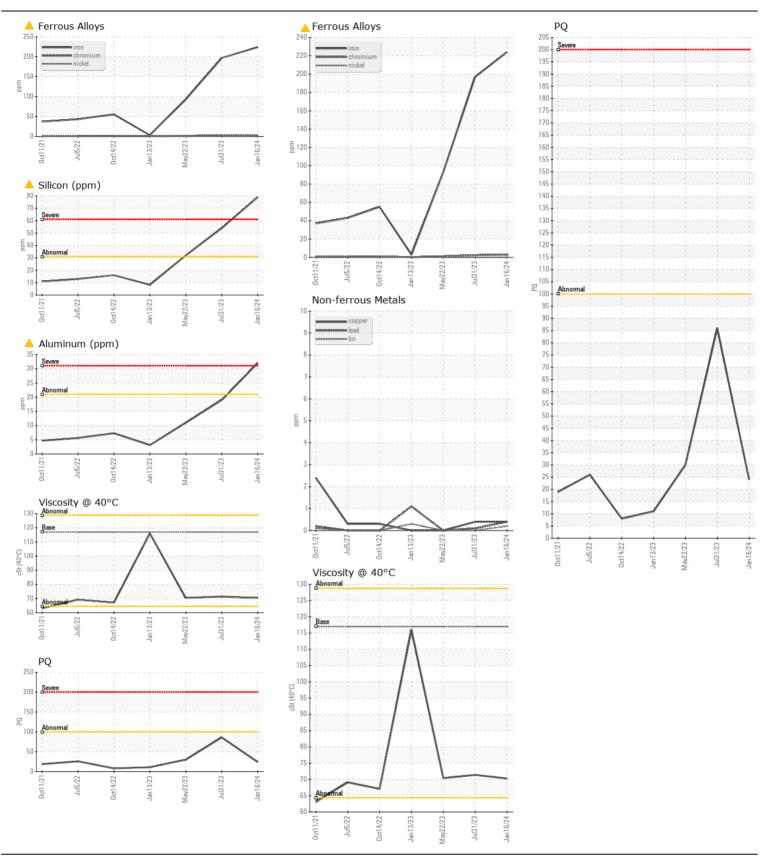


[W67699]

JOHN DEERE 210G 1FF210GXJMF529152

Pump Drive

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W67699)	Sample Number		Client Info		JR0188541	JR0179059	JR0162682
	Sample Date		Client Info		16 Jan 2024	31 Jul 2023	22 May 2023
	Machine Age	hrs	Client Info		4307	3518	3007
	Oil Age	hrs	Client Info		3760	547	500
	Filter Age	hrs	Client Info		0	3518	500
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	PQ		ASTM D8184		24	86	30
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>151	<u> </u>	<u></u> 197	93
	Chromium	ppm	ASTM D5185m	>11	3	2	1
	Nickel	ppm	ASTM D5185m	>10	0	0	0
	Titanium	ppm	ASTM D5185m		2	1	1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>21	▲ 32	1 9	<u> 11</u>
	Lead	ppm	ASTM D5185m	>51	<1	<1	0
	Copper	ppm	ASTM D5185m	>51	<1	<1	0
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>31	<u> </u>	△ 54	▲ 32
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	7	5	3
	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	Sodium	ppm	ASTM D5185m	>51	2	3	2
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		235	291	314
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		225	239	240
	Manganese	ppm	ASTM D5185m		2	2	1
	Magnesium	ppm	ASTM D5185m		783	796	789
	Calcium	ppm	ASTM D5185m		1370	1453	1563
	Phosphorus	ppm	ASTM D5185m		933	894	908
	Zinc	ppm	ASTM D5185m		1017	1032	1082
	Sulfur	ppm	ASTM D5185m	447	3206	3782	3383
	Visc @ 40°C	cSt	ASTM D445	117	70.3	71.4	70.4





Report Id: JAMCHA [WUSCAR] 06064513 (Generated: 01/21/2024 12:37:07) Rev: 1

Laboratory Sample No. Lab Number **Unique Number**

: 06064513

: JR0188541 : 10835895

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 18 Jan 2024 Recieved Diagnosed

: 21 Jan 2024 Diagnostician : Don Baldridge

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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