

Area



RECOMMENDATION

Machine Id JOHN DEERE 210G C9013621 (S/N 1FF210GXCEE522436)

JOHN DEERE GL-5 80W90 (6 QTS)

Resample at the next service interval to monitor. (Customer Sample Comment: W8497)

## **WEAR**

All component wear rates are normal.

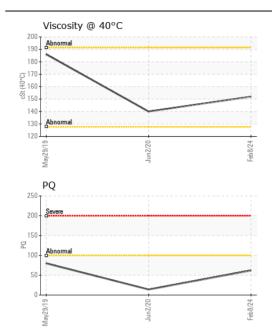
## CONTAMINATION

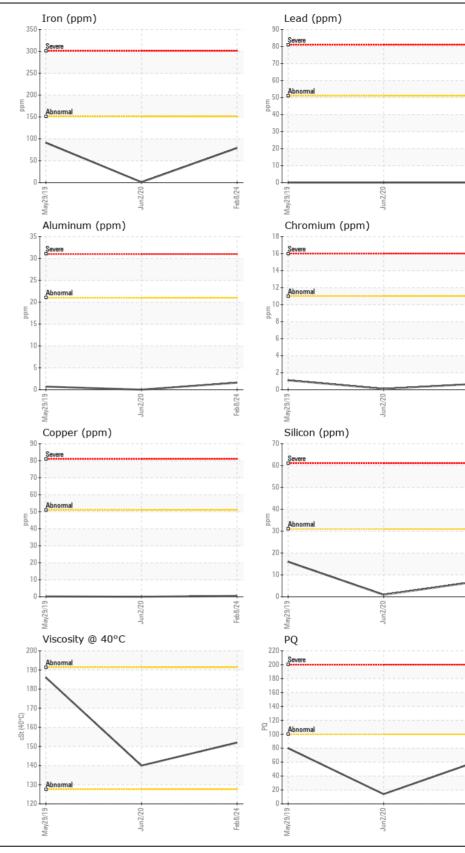
There is no indication of any contamination in the oil.

## FLUID CONDITION

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

Sample Date Client Info 08 Feb 2024 02 Jun 2020 29 May 201   Machine Age hrs Client Info 1701 1601 844   Oil Age hrs Client Info 944 500 844   Filter Age hrs Client Info 0 0 844   Oil Changed Client Info None Not Changed Changed   Filter Changed Client Info None Not Changed N/A   Sample Status Client Info None Not Changed N/A   PQ ASTM D8185m >151 <b>79</b> Alt NORMAL   Nokel ppm ASTM D5185m >11 client alt alt   Nickel ppm ASTM D5185m >10 client alt alt   Nickel ppm ASTM D5185m >10 client alt alt   Nickel ppm ASTM D5185m >10 ol alt alt   Silicon ppm ASTM D5185	ΓS)						
Sample DateClient Info08 Feb 202402 Jun 202029 May 201Machine AgehrsClient Info17011601844Oil AgehrsClient Info944500844Filter AgehrsClient Info00844Oil ChangedClient Info0Not ChangedNAFilter ChangedClient InfoNoneNot ChangedNASample StatusClient InfoNoneNot ChangedNAPQASTM D8184621480IronppmASTM D818511<1<1NickelppmASTM D8185621480IronpmASTM D5185>1579<191ChroniumpmASTM D5185>1<1<11NickelppmASTM D5185<10<10ItaniumpmASTM D5185>510<10AluminumpmASTM D5185>51<10<1ItaadppmASTM D5185>51<100VanadiumppmASTM D5185>51<100VanadiumppmASTM D5185>51<100VanadiumppmASTM D5185>51<100VanadiumppmASTM D5185>317<116PotassiumppmASTM D5185>317<116Potassiumpp	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info17011601844Oil AgehrsClient Info944500844Filter AgehrsClient Info00844Oil ChangedClient InfoNoneNot ChangedN/AFilter ChangedClient InfoNoneNot ChangedN/ASample StatusClient InfoNoneNortMALNORMALPQASTM D5185>15179<1491ChromiumppmASTM D5185>11<111NickelppmASTM D5185>10<1100TitaniumppmASTM D5185>5100<11NickelppmASTM D5185>5100<11LeadppmASTM D5185>5100<11CopperppmASTM D5185>51000VanadiumppmASTM D5185>51000VanadiumppmASTM D5185>51000VanadiumppmASTM D5185>51<100VanadiumppmASTM D5185>51<100VanadiumppmASTM D5185>51<100VanadiumppmASTM D5185>51<100VanadiumppmASTM D5185>51<100VanadiumppmASTM D5185>1<100<	Sample Number		Client Info		JR0197014	JR0013763	JR0008816
Oil AgehrsClient Info944500844Filter AgehrsClient Info00844Oil ChangedClient InfoNoneNot ChangedN/ASample StatusClient InfoNoneNot ChangedN/APQASTM D8184621480IronppmASTM D8185>15179<1	Sample Date		Client Info		08 Feb 2024	02 Jun 2020	29 May 2019
Filter Age Oil ChangedInter Info00844Oil ChangedClient InfoChangedNot ChangedNot ChangedNot ChangedFilter ChangedClient InfoNoneNot ChangedN/ANORMALNORMALSample StatusNormNormNot ChangedN/ANORMALNORMALPQASTM D8185m>15179<1911ChromiumppmASTM D5185m>11<111NickelppmASTM D5185m>10<100TitaniumppmASTM D5185m>2120<1SilverppmASTM D5185m>51000AuminumppmASTM D5185m>51000CopperppmASTM D5185m>51<100VanduiumppmASTM D5185m>51<100VanduiumppmASTM D5185m>51<100Valde Metalscalar"VisualNONENONENONENONESiliconppmASTM D5185m>20208ValterWC Method0.1NEGNONENONENONESiliconppmASTM D5185m>20208ValterWC Method0.1NEGNEGNONESiliconppmASTM D5185m>20208Gotarscalar"VisualNONENONE </th <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>1701</th> <th>1601</th> <th>844</th>	Machine Age	hrs	Client Info		1701	1601	844
Oil ChangedClient InfoChangedNot ChangedNot Changed <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>944</th> <th>500</th> <th>844</th>	Oil Age	hrs	Client Info		944	500	844
Filter ChangedNoClient InfoNoneNot ChangeN/ASample StatusNORMALNORMALNORMALNORMALNORMALNORMALPQASTM D5185m>15179<191ChromiumppmASTM D5185m>11<1<11NickelppmASTM D5185m>10<100TitaniumppmASTM D5185m>10<100SilverppmASTM D5185m>2120<1LeadppmASTM D5185m>51000CopperppmASTM D5185m>51<100VanadiumppmASTM D5185m>10000VanadiumppmASTM D5185m>10000VanadiumppmASTM D5185m>10000VanadiumppmASTM D5185m>10000ValdervisualNONENONENONENONENONEYellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>317<116PotassiumppmASTM D5185m>317<1NONESiliconppmASTM D5185m>317<1NONESoliconppmASTM D5185m>317<1NONESoliconppmASTM D5185m>31NORENONENONE<	Filter Age	hrs	Client Info		0	0	844
Sample StatusNORMALNORMALNORMALNORMALNORMALPQASTM D8184621480IronppmASTM D5185m>11<1<191ChromiumppmASTM D5185m>10<1000NickelppmASTM D5185m>10<1000TitaniumppmASTM D5185m>2120<10SilverppmASTM D5185m>2120<100CopperppmASTM D5185m>51000 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Not Changd</th> <th>Changed</th>	Oil Changed		Client Info		Changed	Not Changd	Changed
PQ ASTM D8184 62 14 80   Iron ppm ASTM D5185m >151 79 <1 911   Chromium ppm ASTM D5185m >10 <1 <1 1   Nickel ppm ASTM D5185m >10 <1 0 0   Titanium ppm ASTM D5185m >10 <1 0 0   Silver ppm ASTM D5185m >21 2 0 <1   Lead ppm ASTM D5185m >21 0 0 0   Copper ppm ASTM D5185m >51 0 0 0 0   Vanaduium ppm ASTM D5185m >10 0 0 0 0   Vanaduium ppm ASTM D5185m >10 0 0 0 0   Vanaduium ppm ASTM D5185m >31 7 <1 16   Potassium ppm ASTM D5185m >20 2	Filter Changed		Client Info		None	Not Changd	N/A
Iron ppm ASTM D5185m >151 79 <1	Sample Status				NORMAL	NORMAL	NORMAL
Chromium ppm ASTM D5185m >11 <1	PQ		ASTM D8184		62	14	80
Nickel ppm ASTM D5185m >10 <1	Iron	ppm	ASTM D5185m	>151	79	<1	91
Titanium ppm ASTM D5185m 2 0 <1	Chromium	ppm	ASTM D5185m	>11	<1	<1	1
Silver ppm ASTM D5185m 0 0 0 0   Aluminum ppm ASTM D5185m >21 2 0 <1   Lead ppm ASTM D5185m >51 0 0 0   Copper ppm ASTM D5185m >51 <1 0 <1   Tin ppm ASTM D5185m >10 0 0 0   Vanadium ppm ASTM D5185m >10 0 0 0   Vanadium ppm ASTM D5185m >10 0 0 0 0   Vanadium ppm ASTM D5185m >10 NONE NONE NONE NONE   Yellow Metal scalar *Visual NONE NONE NONE NONE NONE   Silicon ppm ASTM D5185m >20 2 0 8   Water WC Method >0.1 NEG NORE NONE NONE   Sand/Dirt scalar	Nickel	ppm	ASTM D5185m	>10	<1	0	0
Aluminum ppm ASTM D5185m >21 2 0 <1	Titanium	ppm	ASTM D5185m		2	0	<1
Lead ppm ASTM D5185m >51 0 0 0   Copper ppm ASTM D5185m >51 <1 0 <1   Tin ppm ASTM D5185m >10 0 0 0   Vanadium ppm ASTM D5185m >10 0 0 0   White Metal scalar *Visual NONE NONE NONE NONE NONE   Yellow Metal scalar *Visual NONE NONE NONE NONE NONE   Silicon ppm ASTM D5185m >31 7 <1 16   Potassium ppm ASTM D5185m >20 2 0 8   Water WC Method >0.1 NEG NEG NORE   Debris scalar *Visual NONE NONE NORE NORM   Appearance scalar *Visual NORH NORML NORML NORM   Gdor scalar *Visual <th>Silver</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >51 <1	Aluminum	ppm	ASTM D5185m	>21	2	0	<1
Tin ppm ASTM D5185m >10 0 0 0   Vanadium ppm ASTM D5185m <1 0 0 0   White Metal scalar *Visual NONE NONE NONE NONE   Yellow Metal scalar *Visual NONE NONE NONE NONE   Silicon ppm ASTM D5185m >31 7 <1 16   Potassium ppm ASTM D5185m >20 2 0 8   Water WC Method >0.1 NEG NEG NEG   Debris scalar *Visual NONE NONE NONE NONE   Appearance scalar *Visual NORM NORML NORML NORM   Odor scalar *Visual NORML NORML NORM NORM   Appearance scalar *Visual NORML NORML NORML NORM   Emulsified Water scalar *Visual	Lead	ppm	ASTM D5185m	>51	0	0	0
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>51	<1	0	<1
White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>317<116PotassiumppmASTM D5185m>20208WaterWC Method>0.1NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLSodiumppmASTM D5185m>51<102BoronppmASTM D5185m>51<102BariumppmASTM D5185m3003MaganeseppmASTM D5185m2003MagnesiumppmASTM D5185m203MagnesiumppmASTM D5185m5811PhosphorusppmASTM D5185m5819SulfurppmASTM D5185m5819SulfurppmASTM D5185m5819	Tin	ppm	ASTM D5185m	>10	0	0	0
Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>317<116PotassiumppmASTM D5185m>20208WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONEVLITENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m>51<102BariumppmASTM D5185m2005MolybdenumppmASTM D5185m203MagnesiumppmASTM D5185m2314PhosphorusppmASTM D5185m5819389ZincppmASTM D5185m5819389ZincppmASTM D5185m58193267	Vanadium	ppm	ASTM D5185m		<1	0	0
SiliconppmASTM D5185m>317<1	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
PotassiumppmASTM D5185m>20208WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLCdorscalar*VisualNORMLNORMLNORMLNORMLNORMLSodiumppmASTM D5185m>51<102BoronppmASTM D5185m51<154BariumppmASTM D5185m2005MolybdenumppmASTM D5185m203MagnesiumppmASTM D5185m82314PhosphorusppmASTM D5185m5819ZincppmASTM D5185m5819SulfurppmASTM D5185m5819	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
WaterWC Method>0.1NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONEVLITENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGNEGSodiumppmASTM D5185m>51<102BoronppmASTM D5185m20050MalganeseppmASTM D5185m2030MagnesiumppmASTM D5185m2314PhosphorusppmASTM D5185m5819ZincppmASTM D5185m5819SulfurppmASTM D5185m5819	Silicon	ppm	ASTM D5185m	>31	7	<1	16
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONEVLITENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m>51<102BoronppmASTM D5185m2005MolybdenumppmASTM D5185m203MagnesiumppmASTM D5185m203PhosphorusppmASTM D5185m82314PhosphorusppmASTM D5185m5819SulfurppmASTM D5185m5819	Potassium	ppm	ASTM D5185m	>20	2	0	8
Debrisscalar*VisualNONENONEVLITENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGSodiumppmASTM D5185m>51<102BoronppmASTM D5185m>51<154BariumppmASTM D5185m2005MolybdenumppmASTM D5185m203MagnesiumppmASTM D5185m203PhosphorusppmASTM D5185m82314PhosphorusppmASTM D5185m5819SulfurppmASTM D5185m5819	Water		WC Method	>0.1	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGNEGSodiumppmASTM D5185m>51<102BoronppmASTM D5185m15<154BariumppmASTM D5185m2005MolybdenumppmASTM D5185m203MagnesiumppmASTM D5185m203PhosphorusppmASTM D5185m82314PhosphorusppmASTM D5185m5819SulfurppmASTM D5185m5819	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORML<	Debris	scalar	*Visual	NONE	NONE	VLITE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGNEGSodiumppmASTM D5185m>51<102BoronppmASTM D5185m51<154BariumppmASTM D5185m2005MolybdenumppmASTM D5185m200ManganeseppmASTM D5185m203MagnesiumppmASTM D5185m82314PhosphorusppmASTM D5185m357300389ZincppmASTM D5185m5819SulfurppmASTM D5185m110691657912670	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG   Sodium ppm ASTM D5185m >51 <1 0 2   Boron ppm ASTM D5185m >51 <1 0 2   Barium ppm ASTM D5185m 15 <1 54   Barium ppm ASTM D5185m 20 0 5   Molybdenum ppm ASTM D5185m 3 0 0   Manganese ppm ASTM D5185m 2 0 3   Magnesium ppm ASTM D5185m 48 <1 1   Calcium ppm ASTM D5185m 82 3 14   Phosphorus ppm ASTM D5185m 357 300 389   Zinc ppm ASTM D5185m 58 1 9   Sulfur ppm ASTM D5185m 11069 16579 12670	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
Sodium ppm ASTM D5185m >51 <1	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 15 <1	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Barium ppm ASTM D5185m 20 0 5   Molybdenum ppm ASTM D5185m 3 0 0   Manganese ppm ASTM D5185m 2 0 3   Magnesium ppm ASTM D5185m 2 0 3   Magnesium ppm ASTM D5185m 48 <1	Sodium	ppm	ASTM D5185m	>51	<1	0	2
Molybdenum ppm ASTM D5185m 3 0 0   Manganese ppm ASTM D5185m 2 0 3   Magnesium ppm ASTM D5185m 2 0 3   Magnesium ppm ASTM D5185m 48 <1 1   Calcium ppm ASTM D5185m 82 3 14   Phosphorus ppm ASTM D5185m 357 300 389   Zinc ppm ASTM D5185m 58 1 9   Sulfur ppm ASTM D5185m 11069 16579 12670	Boron	ppm	ASTM D5185m		15	<1	54
Manganese ppm ASTM D5185m 2 0 3   Magnesium ppm ASTM D5185m 48 <1	Barium	ppm	ASTM D5185m		20	0	5
Magnesium ppm ASTM D5185m 48 <1	Molybdenum	ppm	ASTM D5185m		3	0	0
Calcium ppm ASTM D5185m 82 3 14   Phosphorus ppm ASTM D5185m 357 300 389   Zinc ppm ASTM D5185m 58 1 9   Sulfur ppm ASTM D5185m 11069 16579 12670	Manganese	ppm	ASTM D5185m		2	0	3
Phosphorus ppm ASTM D5185m 357 300 389   Zinc ppm ASTM D5185m 58 1 9   Sulfur ppm ASTM D5185m 11069 16579 12670	Magnesium	ppm	ASTM D5185m		48	<1	1
Zinc ppm ASTM D5185m 58 1 9   Sulfur ppm ASTM D5185m 11069 16579 12670	Calcium	ppm	ASTM D5185m		82	3	14
Sulfur ppm ASTM D5185m 11069 16579 12670	Phosphorus	ppm	ASTM D5185m		357	300	389
	Zinc	ppm	ASTM D5185m		58	1	9
Visc @ 40°C cSt ASTM D445 [152] 140 186	Sulfur	ppm	ASTM D5185m		11069	16579	12670
	Visc @ 40°C	cSt	ASTM D445		152	140	186





JRE - HOPE MILLS/FAYETTEVILLE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回音 : JR0197014 Received 5039 HWY 301 SOUTH Sample No. : 13 Feb 2024 Lab Number : 06087647 : 14 Feb 2024 HOPE MILLS, NC Tested : 14 Feb 2024 - Don Baldridge Unique Number : 10875092 US 28348 Diagnosed Test Package : MOBCE (Additional Tests: PQ) Contact: FAYETTEVILLE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

eb8/24