

## WEAR ATTENTION CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Current

LEC0050169

15 May 2024

Changed

ABNORMAL

None

3350

472

0

History1

05 Jul 2023

Changed

ABNORMAL

None

2878

621

0

History2

19 Aug 2022

Changed

ABNORMAL

None

2257

485

0

LEC0043124 LEC0033567



# {unassigned} JOHN DEERE 250G 1FF250GXCKF611322

Test

Sample Number

Sample Date

Machine Age

Oil Age

Filter Age

Oil Changed

Filter Changed

Sample Status

UOM

hrs

hrs

hrs

Method

Client Info

**Client Info** 

Client Info

Client Info

Client Info

**Client Info** 

Client Info

Limit/Abn

Left Propel Gearbox

JOHN DEERE HY-GARD HYD/TRANS (2 GAL)

RECOMMENDATION

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.

#### WEAR

All component wear rates are normal.

### CONTAMINATION

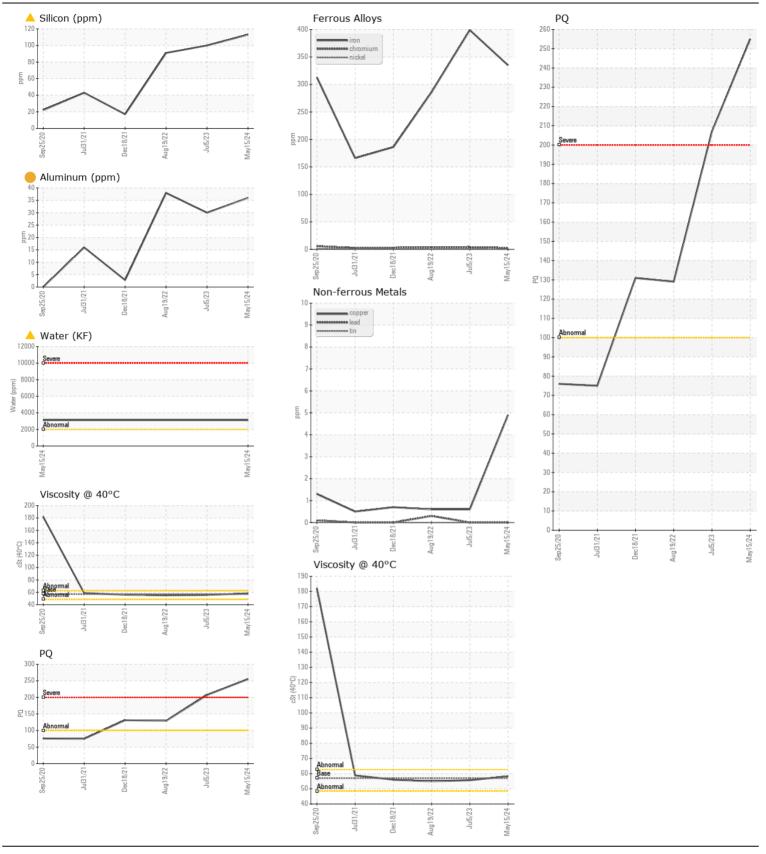
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m11310091PotassiumppmASTM D5185m>20665Water%ASTM D6304>0.20.312ppm WaterppmASTM D6304>20003120Siltscalar*VisualNONELIGHTMODERNONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORENORENONENOREAppearancescalar*VisualNORMLNORMLNORMLNORML							
Chromium     ppm     ASTM D5185m     >10     3     4     4       Nickel     ppm     ASTM D5185m     >10     0     <11	PQ		ASTM D8184		255	207	129
Nickel     ppm     ASTM D5185m     >10     0     <1	Iron	ppm	ASTM D5185m	>1250	335	399	286
Tittanium     ppm     ASTM D5185m     2     2     2       Silver     ppm     ASTM D5185m     0     0     <1       Aluminum     ppm     ASTM D5185m     0     0     <1       Lead     ppm     ASTM D5185m     0     0     <1       Copper     ppm     ASTM D5185m     0     0     <1       Tin     ppm     ASTM D5185m     0     <1     <1       Vanadium     ppm     ASTM D5185m     0     <1     <1       White Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m      113     100     91       Potassium     ppm     ASTM D5185m      1312         Silicon     ppm     ASTM D5185m      1312         Silicon     ppm     ASTM D6304     >0.2      3120         Silt     scalar     *	Chromium	ppm	ASTM D5185m	>10	3	4	4
Silver     ppm     ASTM D5185m     0     0     <1	Nickel	ppm	ASTM D5185m	>10	0	<1	<1
Aluminum     ppm     ASTM D5185m     Image: Stress of the stress o	Titanium	ppm	ASTM D5185m		2	2	2
Lead     ppm     ASTM D5185m     0     0     <1	Silver	ppm	ASTM D5185m		0	0	<1
Copper     ppm     ASTM D5185m     5     <1	Aluminum	ppm	ASTM D5185m		936	30	38
Tin     ppm     ASTM D5185m     0     0     0       Vanadium     ppm     ASTM D5185m     0     <1     <1       White Metal     scalar     *Visual     NONE     NONE     NONE     NONE     LIGHT       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Silicon     ppm     ASTM D5185m     >20     6     6     5       Vater     %     ASTM D5185m     >20     6     6     5       Water     ppm     ASTM D5185m     >20     A 3120         ppm Water     ppm     ASTM D6304     >0.2     A 3120         Silt     scalar     *Visual     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NORM     NORM       Appearance     scalar     *Visual     NORM     NORML     NORML     NORM     NORM       Boron	Lead	ppm	ASTM D5185m		0	0	<1
Vanadium     ppm     ASTM D5185m     0     <1	Copper	ppm	ASTM D5185m		5	<1	<1
White Metalscalar*VisualNONENONENONELIGHTYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185mA1131009191PotassiumppmASTM D5185m>20665Water%ASTM D6304>0.2A0.312ppm WaterppmASTM D6304>2000A3120Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMOdorscalar*VisualNORMLNORMLNORMLNORMLNORMBoronppmASTM D5185m00000MolybdenumppmASTM D5185m03422ManganeseppmASTM D5185m110110104CalciumppmASTM D5185m12901001957950ZincppmASTM D5185m1640115211721157SulfurppmASTM D5185m1640115255.755.0	Tin	ppm	ASTM D5185m		0	0	0
Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m11310091PotassiumppmASTM D5185m>206656Water%ASTM D6304>0.20.312ppm WaterppmASTM D6304>20003120Siltscalar*VisualNONELIGHTMODERNONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLBoronppmASTM D5185m00000MolybdenumppmASTM D5185m03424MagnesiumppmASTM D5185m110110104CalciumppmASTM D5185m3570329133233268PhosphorusppmASTM D5185m1640115211721157SulfurppmASTM D5185m1640115211721157SulfurppmASTM D5185m57.058.255.755.0	Vanadium	ppm	ASTM D5185m		0	<1	<1
Silicon   ppm   ASTM D5185m   A   113   100   91     Potassium   ppm   ASTM D5185m   >20   6   6   5     Water   %   ASTM D6304   >0.2   A   0.312       ppm Water   ppm   ASTM D6304   >2000   A   3120       Silt   scalar   *Visual   NONE   LIGHT   MODER   NONE     Debris   scalar   *Visual   NONE   NONE   NONE   NONE   NONE     Sand/Dirt   scalar   *Visual   NONE   NORM   NORM   NORM   NORM     Appearance   scalar   *Visual   NORM   NORML   NORM   NORM   NORM     Gor   scalar   *Visual   NORM   NORML   NORM   NORM   NORM     Boron   ppm   ASTM D5185m   6   2   8   8   8     Barium   ppm   ASTM D5185m   0   3   4   2   4     Magnesium   ppm   ASTM D5185m	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Potassium     ppm     ASTM D5185m     >20     6     6     5       Water     %     ASTM D6304     >0.2     ▲ 0.312         ppm Water     ppm     ASTM D6304     >2000     ▲ 3120         Silt     scalar     *Visual     NONE     LIGHT     MODER     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NORML     NORML     NORML     NORML       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORM       Emulsified Water     scalar     *Visual     >0.2     0.2%     NEG     NEG       Sodium     ppm     ASTM D5185m     6     2     8     8       Barium     ppm     ASTM D5185m     0     3     4     2	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium     ppm     ASTM D5185m     >20     6     6     5       Water     %     ASTM D6304     >0.2     ▲ 0.312         ppm Water     ppm     ASTM D6304     >2000     ▲ 3120         Silt     scalar     *Visual     NONE     LIGHT     MODER     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE       Sand/Dirt     scalar     *Visual     NONE     NORML     NORML     NORML     NORML       Appearance     scalar     *Visual     NORML     NORML     NORML     NORML     NORML       Odor     scalar     *Visual     NORML     NORML     NORML     NORML     NORM       Emulsified Water     scalar     *Visual     >0.2     0.2%     NEG     NEG       Sodium     ppm     ASTM D5185m     6     2     8     8       Barium     ppm     ASTM D5185m     0     3     4     2	Silicon	maa	ASTM D5185m		<b>113</b>	100	91
Water   %   ASTM D6304   >0.2   ▲ 0.312       ppm Water   ppm   ASTM D6304   >2000   ▲ 3120       Silt   scalar   *Visual   NONE   LIGHT   MODER   NONE     Debris   scalar   *Visual   NONE   NONE   NONE   NONE   NONE     Sand/Dirt   scalar   *Visual   NONE   NONE   NONE   NONE   NONE     Appearance   scalar   *Visual   NORML   NORML   NORML   NORML   NORM     Odor   scalar   *Visual   NORML   NORML   NORML   NORM   NORM     Emulsified Water   scalar   *Visual   NORML   NORML   NORML   NORM     Boron   ppm   ASTM D5185m   6   2   8   8     Barium   ppm   ASTM D5185m   0   0   0   0     Molybdenum   ppm   ASTM D5185m   0   3   4   2     Magnesium   ppm   ASTM D5185m   145   110 <t< th=""><th></th><th></th><th></th><th>&gt;20</th><th>-</th><th></th><th></th></t<>				>20	-		
FrIntSealar*VisualNONELIGHTMODERNONEDebrisscalar*VisualNONENONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.20.2%NEGNEGSodiumppmASTM D5185m6288BoronppmASTM D5185m0000MolybdenumppmASTM D5185m0342ManganeseppmASTM D5185m110110104CalciumppmASTM D5185m12901001957950ZincppmASTM D5185m1640115211721157SulfurppmASTM D5185m57.058.255.755.0	Water		ASTM D6304	>0.2	<b>0.312</b>		
Siltscalar*VisualNONELIGHTMODERNONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.20.2%NEGNEGSodiumppmASTM D5185m6288BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0342MagnesiumppmASTM D5185m110110104CalciumppmASTM D5185m12901001957950ZincppmASTM D5185m1640115211721157SulfurppmASTM D5185m57.058.255.755.0	ppm Water	ppm	ASTM D6304	>2000	<b>A</b> 3120		
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.20.2%NEGNEGSodiumppmASTM D5185m6288BoronppmASTM D5185m6288BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0342MagnesiumppmASTM D5185m145110110104CalciumppmASTM D5185m129032233268PhosphorusppmASTM D5185m12901001957950ZincppmASTM D5185m1640115211721157SulfurppmASTM D5185m57.058.255.755.0	Silt	scalar	*Visual	NONE	LIGHT	MODER	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*Visual>0.20.2%NEGNEGNEGEmulsified Waterscalar*Visual>0.20.2%NEGNEGSodiumppmASTM D5185m110BoronppmASTM D5185m6288BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0342ManganeseppmASTM D5185m145110110104CalciumppmASTM D5185m3570329133233268PhosphorusppmASTM D5185m12901001957950ZincppmASTM D5185m1640115211721157SulfurppmASTM D5185m57.058.255.755.0	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.20.2%NEGNEGSodiumppmASTM D5185m110BoronppmASTM D5185m6288BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0342ManganeseppmASTM D5185m145110110104CalciumppmASTM D5185m3570329133233268PhosphorusppmASTM D5185m1640115211721157SulfurppmASTM D5185m1640389839053270Visc @ 40°CcStASTM D44557.058.255.755.0	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>0.20.2%NEGNEGSodiumppmASTM D5185m110BoronppmASTM D5185m6288BariumppmASTM D5185m0000MolybdenumppmASTM D5185m0342ManganeseppmASTM D5185m145110110104CalciumppmASTM D5185m3570329133233268PhosphorusppmASTM D5185m12901001957950ZincppmASTM D5185m1640115211721157SulfurppmASTM D5185m57.058.255.755.0	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium     ppm     ASTM D5185m     1     1     0       Boron     ppm     ASTM D5185m     6     2     8     8       Barium     ppm     ASTM D5185m     0     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     3     4     2       Manganese     ppm     ASTM D5185m     0     3     4     2       Magnesium     ppm     ASTM D5185m     0     3     4     2       Magnesium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     3570     3291     3323     3268       Phosphorus     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     57.0     58.2     55.7     55.0	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron     ppm     ASTM D5185m     6     2     8     8       Barium     ppm     ASTM D5185m     0     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     3     4     2       Manganese     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     1290     3221     3323     3268       Phosphorus     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     3898     3905     3270       Visc @ 40°C     cSt     ASTM D445     57.0     58.2     55.7     55.0	Emulsified Wate	er scalar	*Visual	>0.2	0.2%	NEG	NEG
Boron     ppm     ASTM D5185m     6     2     8     8       Barium     ppm     ASTM D5185m     0     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     3     4     2       Manganese     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     1290     3221     3323     3268       Phosphorus     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     3898     3905     3270       Visc @ 40°C     cSt     ASTM D445     57.0     58.2     55.7     55.0	Sodium	maa	ASTM D5185m		1	1	0
Barium     ppm     ASTM D5185m     0     0     0     0     0     0       Molybdenum     ppm     ASTM D5185m     0     3     4     2       Manganese     ppm     ASTM D5185m     0     3     4     2       Magnesium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     63.08     3905     3270       Visc @ 40°C     cSt     ASTM D445     57.0     58.2     55.7     55.0				6	-	8	
Molybdenum     ppm     ASTM D5185m     0     3     4     2       Manganese     ppm     ASTM D5185m     2     4     3       Magnesium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     3570     3291     3323     3268       Phosphorus     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     57.0     58.2     55.7     55.0	Barium		ASTM D5185m	0	0	0	0
Manganese     ppm     ASTM D5185m     2     4     3       Magnesium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     3570     3291     3323     3268       Phosphorus     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     57.0     58.2     55.7     55.0	Molybdenum		ASTM D5185m	0	3	4	2
Magnesium     ppm     ASTM D5185m     145     110     110     104       Calcium     ppm     ASTM D5185m     3570     3291     3323     3268       Phosphorus     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     640     3898     3905     3270       Visc @ 40°C     cSt     ASTM D445     57.0     58.2     55.7     55.0			ASTM D5185m		2	4	3
Phosphorus     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     640     3898     3905     3270       Visc @ 40°C     cSt     ASTM D445     57.0     58.2     55.7     55.0	Magnesium		ASTM D5185m	145	110	110	104
Phosphorus     ppm     ASTM D5185m     1290     1001     957     950       Zinc     ppm     ASTM D5185m     1640     1152     1172     1157       Sulfur     ppm     ASTM D5185m     C     3898     3905     3270       Visc @ 40°C     cSt     ASTM D445     57.0     58.2     55.7     55.0	Calcium		ASTM D5185m	3570	3291	3323	3268
Sulfur     ppm     ASTM D5185m     3898     3905     3270       Visc @ 40°C     cSt     ASTM D445     57.0     58.2     55.7     55.0	Phosphorus		ASTM D5185m	1290	1001	957	950
Visc @ 40°C cSt ASTM D445 57.0 58.2 55.7 55.0	Zinc	ppm	ASTM D5185m	1640	1152	1172	1157
	Sulfur	ppm	ASTM D5185m		3898	3905	3270
Submitted By: JOHN MARTIN	Visc @ 40°C	cSt	ASTM D445	57.0	58.2	55.7	55.0
					Submi	tted By: JOHN	MARTIN

#### **FLUID CONDITION**

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

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: WearCheck USA - 501 Madison Ave., Cary, NC 27513 LESLIE EQUIPMENT COMPANY Laboratory 105 TENNIS CENTER DR. Sample No. : LEC0050169 Received : 21 May 2024 MARIETTA, OH Lab Number : 06186499 Tested : 22 May 2024 : 23 May 2024 - Don Baldridge Unique Number : 11043251 US 45750-9765 Diagnosed Test Package : CONST ( Additional Tests: KF, PQ ) Contact: LEANNE KENDALL Certificate L2367 KendalLeanne@lec1.com 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. T: F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: JOHN MARTIN Page 2 of 2