

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

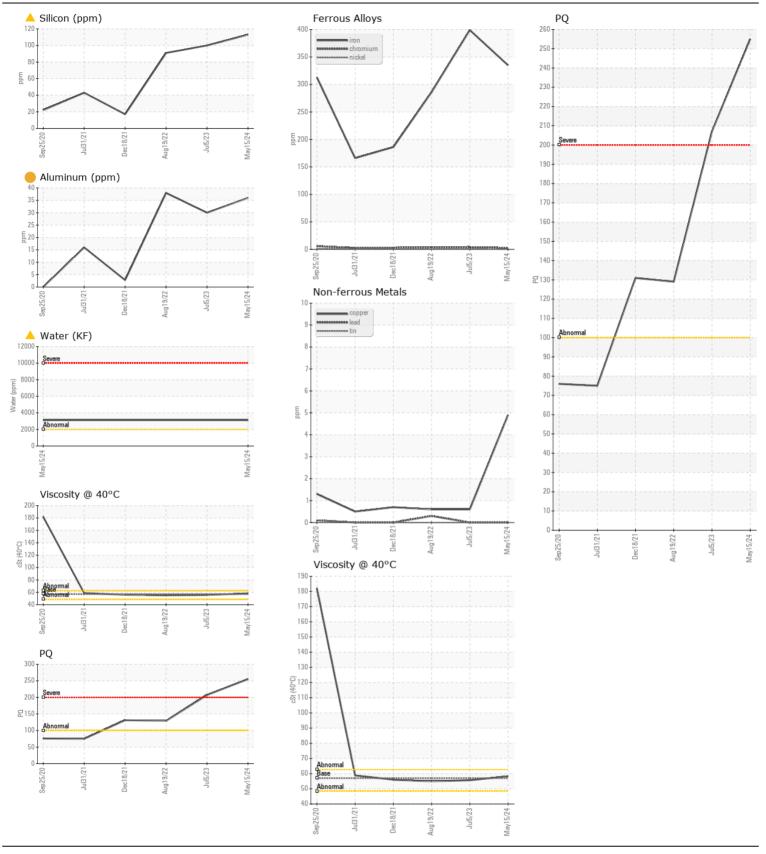
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

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		113	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>>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	0.312		
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	A 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