

## Machine Id JOHN DEERE 35G 5008398 (S/N 1FF035GXJKK287949)

## Component Left Final Drive

## **JOHN DEERE GL-5 80W90 (1 QTS)**

Peecommethon      Test      UOM      Method      unitks      Current      History1      History2        Sample bate      Client Info      Glient Info      Glient Info      Glient Info      1078583      1      10078706         Machine Age      Ins      Client Info      Into      1178      503         Oll Age      Ins      Client Info      Into      0      0         Oll Age      Ins      Client Info      Into      0      0         Oll Changed      Ins      Client Info      Ins      No      No         No      Sample Status      Test      Sample Status      Ins      NO         Niccomponent wear rates are normal.      PQ      ASIM DSIS      S1      61         Nicce      pm      ASIM DSIS      S1      61       1         Nicce      pm      ASIM DSIS      S1      61          Nicce      pm      ASIM DSIS      S1      61      -	JOHN DEERE GL-5 80W90 (1 Q1S)							
Participation and individual control      Sample bate      Client Info      I      State 200      21 Apr 2021	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date      Client Info      0      0      0.6      0.1      0.0      1.78      50.3         Oil Age      hrs      Client Info      0		Sample Number		Client Info		JR0196391	JR0078706	
Oil Age      hrs      Client Info      In78      50.3		Sample Date		Client Info		05 Feb 2024	21 Apr 2021	
Filter Age      hrs      Client Info      0      0      0      0        Oil Changed      Client Info      NA      NA      NA      NA      NA        Filter Changed      Client Info      NA      NA      NA      NA      NA        Sample Status      Filter Changed      StM Distis      STM Distis      STM      202      126		Machine Age	hrs	Client Info		1178	503	
Oil Changed      Client Info      Range      Not Change      Not Change		Oil Age	hrs	Client Info		1178	503	
Filter Changed      Client Into      NA		Filter Age	hrs	Client Info		0	0	
NORMALNORMALNORMALNORMALWEARPQSTM D6168>125093564970All component wear rates are normal.IronpmASTM D6186>7502021260100NormapmASTM D6186>93<2900100100100100NormappmASTM D6186>0411100 <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Not Changd</th> <th></th>		Oil Changed		Client Info		Changed	Not Changd	
VEAR      PQ      STM D8184      >1250      93      54		Filter Changed		Client Info		N/A	N/A	
All component wear rates are normal.    Iron    ppm    ASTM D5165n    >750    202    126       Chromium    ppm    ASTM D5165n    >90    3    2       Nickel    ppm    ASTM D5165n    >0		Sample Status				ATTENTION	NORMAL	
An component weat rates are normal.    Chromium    pm    ASTM D516m    >9    3    2	WEAR	PQ		ASTM D8184	>1250	93	54	
ChromiumppmASTM 05860>032NickelpmASTM 05860>10C1<1<TitaniumpmASTM 05860C00SilverpmASTM 05860C00 </th <th rowspan="12">All component wear rates are normal.</th> <th>Iron</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;750</th> <th>202</th> <th>126</th> <th></th>	All component wear rates are normal.	Iron	ppm	ASTM D5185m	>750	202	126	
TitaniumpmASTM D518911SilverpmASTM D5189A00AluminumpmASTM D5185>4022AluminumpmASTM D5185>4022CopperpmASTM D5185>400CopperpmASTM D5185>400VanadiumpmASTM D5185>4000VanadiumpmASTM D518500VanadiumpmASTM D518500VanadiumpmASTM D518500VanadiumpmASTM D518500VanadiumpmASTM D518500VanadiumpmASTM D518500VanadiumpmASTM D518500VanadiumpmASTM D518500ValuecalaVisualNONENONENONENONEPotassiumpersionscalarVisualNONENONENONEAppearancescalarVisualNORHNORHNORHNORHNORHNORHPotosisti is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirminol		Chromium	ppm	ASTM D5185m	>9	3	2	
Silver      ppm      ASTM D51850      □      0      0         Aluminum      ppm      ASTM D51850      -40      2      2         Lead      ppm      ASTM D51850      -40      5      0      -1         Copper      ppm      ASTM D51850      -40      5      4         Copper      ppm      ASTM D51850      -40      5      4         Vanadium      ppm      ASTM D51850      -40      5      4         Vanadium      ppm      ASTM D51850      -70      0      0         Vanadium      ppm      ASTM D51850      -70      NONE      MODER         Valou      scala      Visual      NONE      NONE      NONE      NONE      NONE      NONE         Silicon      pd      ASTM D51850      -75      14      9          Silicon      pd      ASTM D51850      -70      NEG      NONE      NONE      NONE		Nickel	ppm	ASTM D5185m	>10	<1	<1	
Aluminum    ppm    ASTM D5185m    >40    2    2       Lead    ppm    ASTM D5185m    >15    0    <1       Copper    ppm    ASTM D5185m    >10    0    0       Tin    ppm    ASTM D5185m    >10    0    0       Vanadium    ppm    ASTM D5185m    >10    NONE    MODE       Vellow Metal    scalar    'Visual    NONE    MODE        CONTAMINATION    ppm    ASTM D5185m    >75    14    9        Contaction of any contamination in the oil.    Silicon    ppm    ASTM D5185m    >75    NEG    NORE    NORE       Siliton    scalar    'Visual    NONE    NONE    NONE		Titanium	ppm	ASTM D5185m		<1	1	
Lead      ppm      ASTM DS185m      >15      0      <1		Silver	ppm	ASTM D5185m		0	0	
CopperppASTM D5169>4054TinpmASTM D5169>1000VanadiumpmASTM D5169NORE00VanadiumpmASTM D5189NORENONEMODERValuo Metalscalar'VisualNORENONENONENONEValuo Metalscalar'VisualNORE149SiliconpmASTM D5189>7149PotassiumpmASTM D5189>00149Nerre is no indication of any contamination in the oil.PotassiumpmASTM D5189>00149NaterValuevaluescalar'VisualNORENORENORESili Conscalar'VisualNORENORENOREDebrisscalar'VisualNORENORENOREAgpearancescalar'VisualNORENORENOREOdorscalar'VisualNORENORENOREFLUD CONDITIONScalueyisualScalueyisualNORENegoencescalue'SinueScalue'SinueScalueIndicates the addition of a different brand, or type of oil:ScaluepmSi		Aluminum	ppm	ASTM D5185m	>40	2	2	
TinppmASTM D5185m>1000VanadiumppmASTM D5185m00White Metalscalar"VisualNONENONEMODERVellow Metalscalar"VisualNONENONENONENONEVellow Metalscalar"VisualNONENONENONENONEThere is no indication of any contamination in the oil.SiliconppmASTM D5185m>2020WaterWC Methods.0.75NEGNEGNEGSilitscalar"VisualNONENONENONENONEDebrisscalar"VisualNONENONENONENONEAppearancescalar"VisualNORMNORMNORMOdorscalar"VisualNORMNORMNORMThe oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.NormalNoTStile2024MolybdenumppmASTM D5185mI015IMarganeseppmASTM D5185mI15150MarganeseppmASTM D5185mI1515IMarganeseppmASTM D5185mI1515I <t< th=""><th>Lead</th><th>ppm</th><th>ASTM D5185m</th><th>&gt;15</th><th>0</th><th>&lt;1</th><th></th></t<>		Lead	ppm	ASTM D5185m	>15	0	<1	
Vanadium White Metal Vellow MetalSTM D5185//II		Copper	ppm	ASTM D5185m	>40	5	4	
White Metal    scalar    *Visual    NONE    MODER       Yellow Metal    scalar    *Visual    NONE    NONE    NONE    NONE       CONTAMINATION    Silicon    ppm    ASTM D5185m    >75    14    9       There is no indication of any contamination in the oil.    Potassium    pom    ASTM D5185m    >75    14    9       Water    WC Method    >0.075    NEG    NEG        Sili Con    scalar    *Visual    NONE    NONE    NONE    NONE       Sili Con    scalar    *Visual    NONE    NONE    NONE    NONE    NONE       Sili Con    scalar    *Visual    NONE    NONE    NONE    NONE    NONE       Soli Con    scalar    *Visual    NONE    NONE    NONE    NONE       Sand/Dirt    scalar    *Visual    NOR    NORM    NORM    NORM       FULID CONDITION    Scalar    *Visual    NONE    NOR		Tin	ppm	ASTM D5185m	>10	0	0	
Yellow Metalscalar*VisualNONENONENONECONTAMINATIONSiliconppmASTM D5185m>75149There is no indication of any contamination in the oil.PotassiumppmASTM D5185m>2020WaterWC Method>0.075NNEENNEENONENONENONESilitscalar*VisualNONENONENONENONENONESolitscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNONENORENORENORELOdorscalar*VisualNONENORENORELEnulsified Waterscalar*VisualNONENORENORELSodiumppmASTM D5185m>51O2BoronppmASTM D5185m>51024Nepe.idicates the addition of a different brand, or type of oil. Confirm oilppmASTM D5185mS12024MolybdenumppmASTM D5185midicatesidicatesidicatesidicatesidicatesidicatesidicatesidicatesidicatesidicatesidicatesid		Vanadium	ppm	ASTM D5185m		0	0	
CONTAMINATION    Silicon    ppm    ASTM D5185m    >75    14    9       Potassium    ppm    ASTM D5185m    >20    2    0       Water    WC Method    >0.075    NEG    NEG       Silt    scalar    *Visual    NONE    NONE    NONE    NONE       Silt    scalar    *Visual    NONE    NONE    NONE    NONE       Debris    scalar    *Visual    NONE    NONE    NONE    NONE    NONE       Appearance    scalar    *Visual    NORM    NORML    NORML    NORML       Modor    scalar    *Visual    NORM    NORML    NORML       Appearance    scalar    *Visual    NORM    NORML    NORML       Modor    scalar    *Visual    NORM    NORML    NORML       Resultified Water    scalar    *Visual    NORM    NORML    NORML       Boron    ppm    ASTM D5185m    -51 <th>White Metal</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th>MODER</th> <th></th>		White Metal	scalar	*Visual	NONE	NONE	MODER	
Potassium    ppm    ASTM D5185m    >20    2    0       Water    WC Method    >0.075    NEG    NEG       Silt    scalar    *Visual    NONE    NONE    NONE       Debris    scalar    *Visual    NONE    NONE    NONE       Sand/Dirt    scalar    *Visual    NONE    NONE    NONE       Appearance    scalar    *Visual    NOR    NORML    NORML       Odor    scalar    *Visual    NOR    NORML    NORML       Odor    scalar    *Visual    NOR    NORML       Odor    scalar    *Visual    NOR    NORML       FLUID CONDITION    Sodium    ppm    ASTM D5185m    >51    0    2       FLUID consity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.    ppm    ASTM D5185m    >51    0    24       Molybdenum    ppm    ASTM D5185m    15    15 </th <th>Yellow Metal</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th>NONE</th> <th></th>		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Water    WC Metho    >0.075    NEG    NEG       Silt    scalar    *Visual    NONE    NONE    NONE       Debris    scalar    *Visual    NONE    NONE    NONE       Sand/Dirt    scalar    *Visual    NONE    NONE    NONE       Appearance    scalar    *Visual    NOR    NORM    NORML       Odor    scalar    *Visual    NOR    NORML    NORML       Emulsified Water    scalar    *Visual    NOR    NORML    NORML       FLUID CONDITION    Scalur    *Visual    NOR    NORML    NORML       Boron    ppm    ASTM D5185m    >51    0    2       Barium    ppm    ASTM D5185m    I    15       Molybdenum    ppm    ASTM D5185m    I    15       Manganese    ppm    ASTM D5185m    2    2	CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	14	9	
WaterWC Method>0.075NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMNORMLNORMLEmulsified Waterscalar*VisualNORMNORMLNORMLFLUID CONDITIONScalar*Visualscalar*UsualSolorNEGBoronppmASTM D5185m-5102BariumppmASTM D5185m-2024MolybdenumppmASTM D5185m-1515ManganeseppmASTM D5185m-22Sitti Sitti	There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	
Debrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Watrscalar*Visual\$0.075NEGNEGFLUID CONDITIONSodiumppmASTM D5185m>51022BoronppmASTM D5185m512024BariumppmASTM D5185m101515AloganeseppmASTM D5185mIst2024ManganeseppmASTM D5185mIst151515IstIstististististIstIstNoneppmASTM D5185mIstIstIstIstIstIstIstistististististIstIstIstIstIstistististististististIstIstIstIstististististististististististIstistististististististististististIstististististist		Water		WC Method	>0.075	NEG	NEG	
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORML0Emulsified Watescalar*Visual>0.075NEGNEGFLUID CONDITIONSodiumppmASTM D5185m>5102BoronppmASTM D5185m>51024BariumppmASTM D5185mI2024MolybdenumppmASTM D5185mI1515ManganeseppmASTM D5185mI22		Silt	scalar	*Visual	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLIOdorscalar*VisualNORMLNORMLNORMLNORMLIIIEmulsified Waterscalar*Visual>0.075NEGNEGIIIIFLUID CONDITIONSodiumppmASTM D5185m>5102II <td< th=""><th>Debris</th><th>scalar</th><th>*Visual</th><th>NONE</th><th>NONE</th><th>NONE</th><th></th></td<>		Debris	scalar	*Visual	NONE	NONE	NONE	
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGFLUID CONDITIONSodiumppmASTM D5185m>5102BoronppmASTM D5185m<12155BariumppmASTM D5185mC2024MolybdenumppmASTM D5185mI1515ManganeseppmASTM D5185mI2		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Waterscalar*Visual>0.075NEGNEGFLUID CONDITIONSodiumppmASTM D5185m>5102The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.SodiumppmASTM D5185m>5102BoronppmASTM D5185mI2024BariumppmASTM D5185mI2024MolybdenumppmASTM D5185mI15IManganeseppmASTM D5185m22		Appearance	scalar	*Visual	NORML	NORML	NORML	
FLUID CONDITION    Sodium    ppm    ASTM D5185m    >51    0    2       The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.    Sodium    ppm    ASTM D5185m    < 12    15    <      Barium    ppm    ASTM D5185m    20    24       Molybdenum    ppm    ASTM D5185m    15    15       Manganese    ppm    ASTM D5185m    2    2		Odor	scalar	*Visual	NORML	NORML	NORML	
BoronppmASTM D5185m1215Indicates the addition of a different brand, or type of oil. Confirm oil type.BariumppmASTM D5185m2024MolybdenumppmASTM D5185m1515ManganeseppmASTM D5185m22		Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	
Internation of a different brand, or type of oil. Confirm oil type.BariumppmASTM D5185m2024MolybdenumppmASTM D5185m1515ManganeseppmASTM D5185m22	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	0	2	
Indicates the addition of a different brand, or type of oil. Confirm oil type.  Barium  ppm  ASTM D5185m  20  24     Molybdenum  ppm  ASTM D5185m  15  15     Manganese  ppm  ASTM D5185m  2  2	The oil viscosity is lower than normal. This plus the additive levels	Boron	ppm	ASTM D5185m		<b>1</b> 2	15	
Manganese      ppm      ASTM D5185m      2      2	indicates the addition of a different brand, or type of oil. Confirm oil	Barium	ppm	ASTM D5185m		20	24	
		Molybdenum	ppm	ASTM D5185m		15	15	
Magnesium      ppm      ASTM D5185m      9      10		Manganese	ppm	ASTM D5185m		2	2	
		Magnesium	ppm	ASTM D5185m		9	10	

Calcium

Zinc

Sulfur

Phosphorus

Visc @ 40°C

ppm

ppm

ppm

ppm

cSt

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D445

4056

579

742

2177

**3072** 

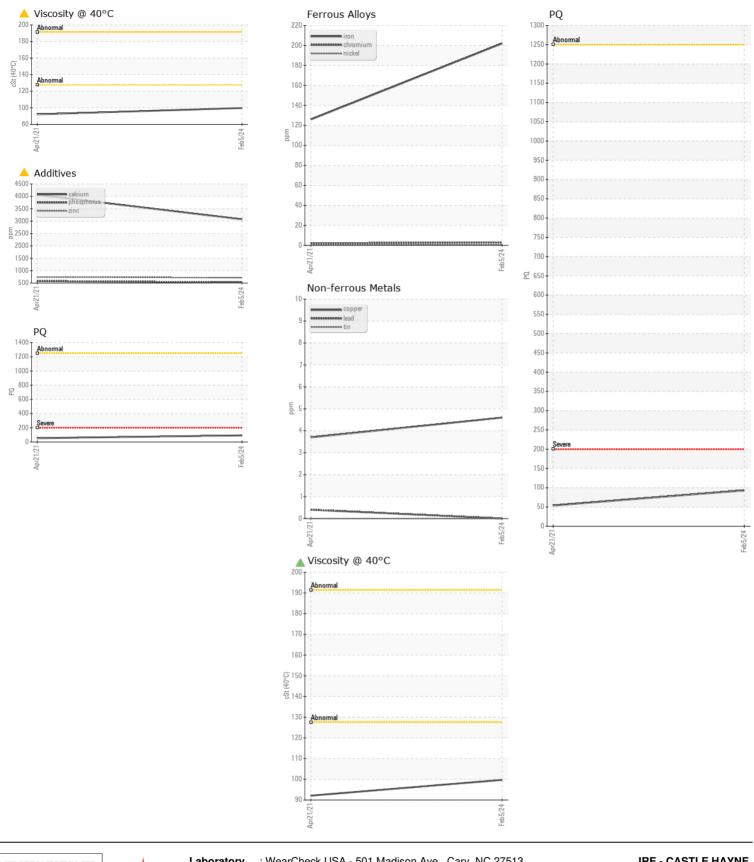
**714** 

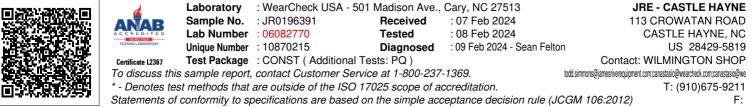
**3142** 

**99.7** 

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