



## Area Store 8 - Pikeville [ro#130365] JOHN DEERE 650K 1T0650KKKHF316340 Left Final Drive

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

Resample at the next service interval to monitor.    Sample Number    Client Info    LE002842        Sample Date    Client Info    Client Info    Sd Jul 202        Machine Age    hrs    Client Info    Info    396        Machine Age    hrs    Client Info    Info    396        Oil Age    hrs    Client Info    Info    Not Changed	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Data in lineary services interview      Sample Data interview      Client Info      Single Data interview      Single Data interview <th rowspan="2"></th> <th></th> <th>00101</th> <th></th> <th>LIIIII/ADII</th> <th></th> <th></th> <th></th>			00101		LIIIII/ADII			
Machine Age      Ins      Client Info      996      IIII - Age      Pice      Signed      IIII - Age      Pice      Signed      IIII - Age      Pice								
Ol AgahrsClient IndoS96nononoFiler AgahrsClient IndoNo ChangenonononoOl ChangedClient IndoNo ChangenonononononoFiler ChangedClient IndoNo RNAno		•	hrs					
Filter Age      hrs      Cliant Info      0		-						
Oil Changed      Client Info      Net Changed      Image      Note      Image      Image      Note      Image      Note      Image      Image      Note      Image		-						
Filter Changed      Client Info      NA		-				Not Changd		
Sample StatusNORMA </th <th></th> <th></th> <th></th> <th>Client Info</th> <th></th> <th>_</th> <th></th> <th></th>				Client Info		_		
Iron    pm    ASIL 05/85m    >500    59       Chromium    pm    ASIL 05/85m    >10    22       Nickel    pm    ASIL 05/85m    -10    2.1       Nickel    pm    ASIL 05/85m    -0        Nickel    pm    ASIL 05/85m    -0        Silver    pm    ASIL 05/85m    -25    11        Aluminum    pm    ASIL 05/85m    -50    11        Aluminum    pm    ASIL 05/85m    -50    11        Copper    pm    ASIL 05/85m    -50    11        Tin    pm    MSIL 05/85m    -50    11        Tin    pm    ASIL 05/85m    -50    11        White Metal    scalar    Visual    NONE    MONE        There is no indication of any contamination in the oil.    Silicon    pm    ASIL 05/85m    SIL		-				NORMAL		
Iron    pm    ASIL 05/85m    >500    59       Chromium    pm    ASIL 05/85m    >10    22       Nickel    pm    ASIL 05/85m    -10    2.1       Nickel    pm    ASIL 05/85m    -0        Nickel    pm    ASIL 05/85m    -0        Silver    pm    ASIL 05/85m    -25    11        Aluminum    pm    ASIL 05/85m    -50    11        Aluminum    pm    ASIL 05/85m    -50    11        Copper    pm    ASIL 05/85m    -50    11        Tin    pm    MSIL 05/85m    -50    11        Tin    pm    ASIL 05/85m    -50    11        White Metal    scalar    Visual    NONE    MONE        There is no indication of any contamination in the oil.    Silicon    pm    ASIL 05/85m    SIL	WEAR	PO			. 1050			
Number of the set is a large at a function.    Chromium    ppm    ASTM D5185m    -0    2        Nickel    ppm    ASTM D5185m    C         Titanium    ppm    ASTM D5185m    C         Aluminum    ppm    ASTM D5185m    -25    -1        Aluminum    ppm    ASTM D5185m    -25    1        Aluminum    ppm    ASTM D5185m    -25    1        Aluminum    ppm    ASTM D5185m    -50    1        Vanadium    ppm    ASTM D5185m    -50    1        Vanadium    ppm    ASTM D5185m    -00    1        Vanadium    ppm    ASTM D5185m    -00    1        Visual    NONE    NONE    NONE         Visual    NONE    NONE    NONE         Silicon	WEAR		10.10.100					
NickelppASTM D515mCC1TitaniumppmASTM D515mCCC <t< th=""><th rowspan="11">All component wear rates are normal.</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	All component wear rates are normal.							
TitaniumppmASTM D518sr0SilverppmASTM D518srAluminumppmASTM D518srAluminumppmASTM D518srCopperppmASTM D518srCopperppmASTM D518srVanaiumppmASTM D518sr-01VanaiumppmASTM D518sr-0VanaiumppmASTM D518sr-0ValuescalarVisualNONEMODEVellow MetalscalarVisualNONENONEPotassiumppmASTM D518sr-S4MaterVisualNONENONEDebrisscalarVisualNONENONESand/DirtscalarVisualNONENONEEnulsfied WatervisualNONENONEDebrisscalarVisualNONENONESand/DirtscalarVisualNONENONEBariumppmASTM D518srMaterppmASTM D518sr					>10			
Silver      ppm      ASTM 5618m      c      c      c        Aluminum      ppm      ASTM 5618m      >20      c1      c      c        Lead      ppm      ASTM 5618m      >20      c1      c      c        Copper      ppm      ASTM 5618m      >50      c1      c      c        Copper      ppm      ASTM 5618m      >50      c1      c      c        Vanadium      ppm      ASTM 5618m      >10      1      c      c        Vanadium      ppm      ASTM 5618m      >10      1      c      c        Vanadium      ppm      ASTM 5618m      >10      1      c      c        Velow Metal      scalar      'Visual      NONE      MODER      c      c        Silicon      ppm      ASTM 5618m      >20      75      NEG      c        There is no indication of any contamination in the oil.      Water      Visual      NONE      NONE      c        Solid      scalar      Visual <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Aluminum      ppm      ASTM 25185      >25      <1								
Lead      ppm      ASTM D5185m      -25      1          Copper      ppm      ASTM D5185m      -50      -1          Tin      ppm      ASTM D5185m      -50      -1          VanadiuMetal      scalar      Visual      NONE      MODE          White Metal      scalar      Visual      NONE      MODE          Yellow Metal      scalar      Visual      NONE      MODE          Yellow Metal      scalar      Visual      NONE      MODE          Yellow Metal      scalar      Visual      NONE      NONE          Water      Wisel      NONE      NONE      NONE      NONE          Sand/Unit      scalar      Visual      NORE      NORE          Sand/Unit      scalar      Visual      NORM      NORM          Sand/Unit<					. 25			
Copper      ppm      ASTM D5185n      >500      <1								
Tin      ppm      ASTM D5185m      10      1          Vanadium      ppm      ASTM D5185m      0           White Metal      scalar      Visual      NONE      MODER          Yellow Metal      scalar      Visual      NONE      NONE          CONTAMINATION      Silicon      ppm      ASTM D5185m      >75      4          There is no indication of any contamination in the oil.      Potassium      ppm      ASTM D5185m      >75      4          Water      Wolker      Visual      NONE      NONE          Sand/Dirt      scalar      Visual      NONE      NONE          Qoor      scalar      Visual      NORM      NONE          FLUID CONDITION      Sodium      ppm      ASTM D5185m      S1      3          Magnaese      ppm      ASTM D5185m      S1      3								
VanadiumppmASTM D51580White Metalscalar'VisualNONEMODERYellow Metalscalar'VisualNONENONECONTAMINATIONSiliconppmASTM D5185-S4PotassiumppmASTM D5185>207WaterWaterWC Method>0.075NEGSilitscalar'VisualNONENONEAppearancescalar'VisualNONENONEAppearancescalar'VisualNORMNORMDoorscalar'VisualNORMNORMNoneNORMNORMNORMNORMQoorscalar'VisualNORMNORMNORMNoneSolurscalar'VisualNORMNORM								
White Metal Yellow MetalScalar"VisualNONEMODER NONECONTAMINATIONSiliconppASTMD5185>754There is no indication of any contamination in the oil.PotassiumppASTMD5185>207WaterWC Method>.0.075NEGSilitscalar"VisualNONENONESilitscalar"VisualNONENONE<					>10			
Yellow Metalscalar*VisualNONENONECONTAMINATIONThere is no indication of any contamination in the oil.SiliconppmASTM D5/85m>754WaterKC Method>0.075NEGWaterVC MethodNONENONENONESilitscalar*VisualNONENONESilitscalar*VisualNONENONESadr/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMCodorscalar*VisualNORMNORMLFLUID CONDITIONSodiumppmASTM D5/85m>513BoronppmASTM D5/85m00MalgenesiumppmASTM D5/85m00MolybdenumppmASTM D5/85m00MalgenesiumppmASTM D5/85m153MalgenesiumppmASTM D5/85m153431MalgenesiumppmASTM D5/85m153431The condition of the oil is acceptable for the time in service.PameASTM D5/85m1535MalgenesiumppmASTM D5/85								
CONTAMINATION    Silicon    ppm    ASTM D5185m    >75    4       Potassium    ppm    ASTM D5185m    >20    7        Water    Water    WC Method    >0.075    NEG        Silit    scalar    *Visual    NONE    NONE        Silit    scalar    *Visual    NONE    NONE        Sand/Dira    scalar    *Visual    NONE    NONE        Appearance    scalar    *Visual    NORM    NORML        Odor    scalar    *Visual    NORML    NORML								
Potassium  ppm  ASTM D5189  >20  7     Water  WC Method  >0.075  NEG     Silt  scalar  *Visual  NONE  NONE     Debris  scalar  *Visual  NONE  NONE     Sand/Dirt  scalar  *Visual  NONE  NONE     Appearance  scalar  *Visual  NORE      Odor  scalar  *Visual  NORE      Odor  scalar  *Visual  NORE      Odor  scalar  *Visual  NORE      The condition of the oil is acceptable for the time in service.  Solium  ppm  ASTM D5185  >-51  3     Boron  ppm  ASTM D5185  0  0      Molybdenum  ppm  ASTM D5185  0  0      Magnaese  ppm  ASTM D5185  0  0      Magnesium  pm  ASTM D5185  145  95      Magnesium  pm  ASTM D5185  145  95 <th></th> <th></th> <th></th> <th>visuai</th> <th></th> <th></th> <th></th> <th></th>				visuai				
Water    WC Method    >0.075    NEG       Silt    scalar    Visual    NONE    NONE       Debris    scalar    Visual    NONE    NONE       Sand/Dirt    scalar    Visual    NONE    NONE       Appearance    scalar    Visual    NOR    NONE       Odor    scalar    Visual    NOR    NORM       Odor    scalar    Visual    NOR    NORM       The condition of the oil is acceptable for the time in service.    Boron    ppm    ASTM D5185    -5    3       Malganese    ppm    ASTM D5185    0    0        Malganesium    ppm    ASTM D5185    0    0    0 </th <th>CONTAMINATION</th> <th>Silicon</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;75</th> <th>4</th> <th></th> <th></th>	CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	4		
WaterWC Method>0.075NEGSiltscalar'VisualNONENONEDebrisscalar'VisualNONENONESand/Dirtscalar'VisualNONENONEAppearancescalar'VisualNORENOREOdorscalar'VisualNORENOREOdorscalar'VisualNORENOREEmulsified Waterscalar'VisualNORESodiumppmASTM D5185-51StalBoronppmASTM D5185-51StalBariumppmASTM D5185000MagnaeseppmASTM D51850StalMagnesiumppmASTM D51853570StalPhosphorusppmASTM D518516401221SulfurppmASTM D518516401221NoneppmASTM D518516401221SulfurppmASTM D518516401221SulfurppmASTM D518516401221SulfurppmASTM D518516401640 <th rowspan="8">There is no indication of any contamination in the oil.</th> <th>Potassium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;20</th> <th>7</th> <th></th> <th></th>	There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	7		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLEmulsified Waterscalar*VisualNORMNORMLSodiumscalar*VisualNORMNORMLFLUID CONDITIONSodiumppmASTM 05185>513BoronppmASTM 0518562BariumppmASTM 0518500MolybdenumppmASTM 0518500ManganeseppmASTM 05185145955MagnesiumppmASTM 05185145961PhosphorusppmASTM 05185129961SulfurppmASTM 051851641221SulfurppmASTM 051851641221		Water		WC Method	>0.075	NEG		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLEmulsified Waterscalar*Visual>0.075NEGFLUID CONDITIONSodiumppmASTM D5185n>513BoronppmASTM D5185n5002BariumppmASTM D5185n00MolybdenumppmASTM D5185n0ManganeseppmASTM D5185n145951CalciumppmASTM D5185n145951PhosphorusppmASTM D5185n1401221PhosphorusppmASTM D5185n16401221SulfurppmASTM D5185n16401221SulfurppmASTM D5185n16401221SulfurppmASTM D5185n16401221SulfurppmASTM D5185n16401221SulfurppmASTM D5185n16401221SulfurppmASTM D5185n16401221SulfurppmASTM D5185n1640122		Silt	scalar	*Visual	NONE	NONE		
Appearance Odorscalar*VisualNORMLNORMLOdorscalar*VisualNORMNORMLEmulsified Waterscalar*Visual>0.075NEGNECONDITIONSodiumppmASTM D5185-513BoronppmASTM D5185000BariumppmASTM D518500MolydenumppmASTM D518500ManganeseppmASTM D518514595MagnesiumppmASTM D51853573431CalciumppmASTM D518516401221PhosphorusppmASTM D518516401221SuffurppmASTM D518516401221SuffurppmASTM D518516401221SuffurppmASTM D518516401221SuffurppmASTM D518516401221SuffurppmASTM D518516401221SuffurppmASTM D518516401221SuffurppmASTM D518516401221SuffurppmASTM D518516401221SuffurppmASTM D51851640 <th>Debris</th> <th>scalar</th> <th>*Visual</th> <th>NONE</th> <th>NONE</th> <th></th> <th></th>		Debris	scalar	*Visual	NONE	NONE		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGSodiumppmASTM D5185m>513FLUID CONDITIONSodiumppmASTM D5185m62BoronppmASTM D5185m000BariumppmASTM D5185m00MolybdenumppmASTM D5185m0<ManganeseppmASTM D5185m145955CalciumppmASTM D5185m145955PhosphorusppmASTM D5185m12909611ZincppmASTM D5185m16401221SulfurppmASTM D5185m16403299		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water    scalar    *Visual    >0.075    NEG       FLUID CONDITION    Sodium    ppm    ASTM D5185m    5-11    3        Boron    ppm    ASTM D5185m    6    2        Barium    ppm    ASTM D5185m    6    2        Molybdenum    ppm    ASTM D5185m    0    0        Manganese    ppm    ASTM D5185m    145    95        Magnesium    ppm    ASTM D5185m    145    95        Phosphorus    ppm    ASTM D5185m    145    95        Sulfur    ppm    ASTM D5185m    145    95        Sulfur    ppm    ASTM D5185m    145    95        Sulfur    ppm    ASTM D5185m    145    961        Sulfur    ppm    ASTM D5185m    1640    1221        Sulfur    ppm <th>Appearance</th> <th>scalar</th> <th>*Visual</th> <th>NORML</th> <th>NORML</th> <th></th> <th></th>		Appearance	scalar	*Visual	NORML	NORML		
FLUID CONDITION    Sodium    ppm    ASTM D5185m    >51    3       Boron    ppm    ASTM D5185m    6    2        Barium    ppm    ASTM D5185m    0    0        Molybdenum    ppm    ASTM D5185m    0    0        Manganese    ppm    ASTM D5185m    145    955        Magnesium    ppm    ASTM D5185m    145    955        Phosphorus    ppm    ASTM D5185m    145    956        Zinc    ppm    ASTM D5185m    1450    956        Sulfur    ppm    ASTM D5185m    1640    1221        Sulfur    ppm    ASTM D5185m    1640    1221		Odor	scalar	*Visual	NORML	NORML		
Boron    ppm    ASTM D5185m    6    2       Barium    ppm    ASTM D5185m    0    0        Molybdenum    ppm    ASTM D5185m    0        Manganese    ppm    ASTM D5185m    145        Magnesium    ppm    ASTM D5185m    145        Magnesium    ppm    ASTM D5185m    145        Calcium    ppm    ASTM D5185m    145        Phosphorus    ppm    ASTM D5185m    1450        Sulfur    ppm    ASTM D5185m    1640         Sulfur    ppm    ASTM D5185m    1640    1221		Emulsified Water	scalar	*Visual	>0.075	NEG		
Boron    ppm    ASTM D5185m    6    2       Barium    ppm    ASTM D5185m    0    0        Molybdenum    ppm    ASTM D5185m    0        Manganese    ppm    ASTM D5185m    145        Magnesium    ppm    ASTM D5185m    145        Magnesium    ppm    ASTM D5185m    145        Calcium    ppm    ASTM D5185m    145        Phosphorus    ppm    ASTM D5185m    1450        Sulfur    ppm    ASTM D5185m    1640         Sulfur    ppm    ASTM D5185m    1640    1221	FLUID CONDITION	Sodium	maa	ASTM D5185m	>51	3		
Barium    ppm    ASTM D5185m    0    0       Molybdenum    ppm    ASTM D5185m    0    <1       Manganese    ppm    ASTM D5185m    145    5       Magnesium    ppm    ASTM D5185m    145    95       Magnesium    ppm    ASTM D5185m    145    95       Phosphorus    ppm    ASTM D5185m    145    95       Zinc    ppm    ASTM D5185m    1290    961        Sulfur    ppm    ASTM D5185m    1640    1221								
MolybdenumppmASTM D5185m0<1								
Manganese    ppm    ASTM D5185m    5       Magnesium    ppm    ASTM D5185m    145    95        Calcium    ppm    ASTM D5185m    3570    3431        Phosphorus    ppm    ASTM D5185m    1290    961        Zinc    ppm    ASTM D5185m    1640    1221        Sulfur    ppm    ASTM D5185m    1640    3299								
Magnesium    ppm    ASTM D5185m    145    95        Calcium    ppm    ASTM D5185m    3570    3431        Phosphorus    ppm    ASTM D5185m    1290    961        Zinc    ppm    ASTM D5185m    1640    1221        Sulfur    ppm    ASTM D5185m    1640    3299								
Calcium    ppm    ASTM D5185m    3570    3431       Phosphorus    ppm    ASTM D5185m    1290    961        Zinc    ppm    ASTM D5185m    1640    1221        Sulfur    ppm    ASTM D5185m    1640    3299		-			145			
Phosphorus      ppm      ASTM D5185m      1290      961          Zinc      ppm      ASTM D5185m      1640      1221          Sulfur      ppm      ASTM D5185m      640      3299		-						
Zinc    ppm    ASTM D5185m    1640    1221       Sulfur    ppm    ASTM D5185m    1640    3299						061		
Sulfur      ppm      ASTM D5185m      3299			ppm	ASTM D5185m	1290	901		
		Phosphorus						
		Phosphorus Zinc	ppm	ASTM D5185m		1221		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : LEC0028426 Recieved : 12 Aug 2022 Lab Number : 05616502 Diagnosed : 15 Aug 2022 : 10090996 Unique Number Diagnostician : Don Baldridge Test Package : CONST (Additional Tests: PQ) Certificate L2367 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)

T: (606)783-8626 F:

MOREHEAD, KY

US 40351

255 RODBURN HOLLOW

Contact: FLOYD WILLIS