

WEAR ABNORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



RECOMMENDATION

JOHN DEERE 160G LC 1FF160GXANF058459

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (8 GAL)

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: A34722)

WEAR

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

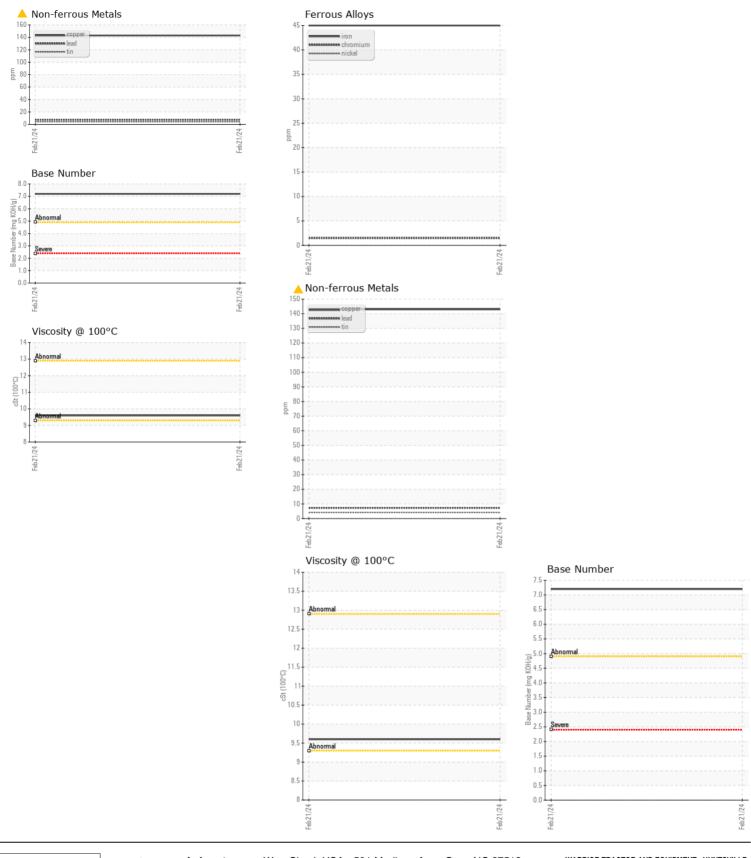
CONTAMINATION

There is no indication of any contamination in the oil.

Test UOM Method LimitAbn Current History1 History2 Sample Date Client Info 21 Feb 2024 Machine Age hrs Client Info 398 Oil Age hrs Client Info 398 Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status ASTM 0585m >51 45 Nickel ppm ASTM 0585m >51 45 Silver ppm ASTM 0585m >3 <1 Silver ppm ASTM 0585m >26 7 Qopper ppm ASTM 0585m >26 7 Yellow Metal scalar 'Visual NONE NONE					~		
Sample Date Client Info 21 Feb 2024 Machine Age hrs Client Info 398 Filter Age hrs Client Info 398 Oil Changed Client Info Changed Filter Age hrs Client Info Changed Sample Status Client Info Changed Iron ppm ASTM D5185m >51 45 Nickel ppm ASTM D5185m >51 45 Silver ppm ASTM D5185m >3 41 Silver ppm ASTM D5185m >26 7 Copper ppm ASTM D5185m >26 4 143 Vanadium pm ASTM D5185m >22 14 Yellow	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 398 Filter Age hrs Client Info 398 Filter Age hrs Client Info Changed Filter Changed Client Info Changed Filter Changed Client Info Changed Filter Changed Client Info Changed Sample Status Filter Changed Client Info Changed Tran ppm ASTM D5185m >51 45 Nickel ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >26 143 Copper ppm ASTM D5185m >22 14 Yellow Metal scalar Yusual NONE NONE	Sample Number		Client Info		WE0006651		
Oil Age hrs Client Info 398 Filter Age hrs Client Info 398 Gil Changed Client Info Changed Filter Changed Client Info Changed Sample Status ABNORMAL Iron ppm ASTM D5185m >5 1 Nickel ppm ASTM D5185m >5 1 Silver ppm ASTM D5185m >31 13 Auminum ppm ASTM D5185m >26 7 Gopper ppm ASTM D5185m >26 4 3 Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >22 14 Fuel WCM Method >0.1	Sample Date		Client Info		21 Feb 2024		
Fitter Age hrs Client Info 398 Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status ASTM D5185m >51 45 Iron ppm ASTM D5185m >51 1 Nickel ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >3 <1 Lead ppm ASTM D5185m >26 7 Vanadium ppm ASTM D5185m >26 7 Vanadium ppm ASTM D5185m >26 7 Valow Metal scalar *Visual NONE NONE Vanadium ppm ASTM D5185m >22 14	Machine Age	hrs	Client Info		398		
Oil Changed Client Info Changed Filter Changed Client Info Changed Sample Status ABNORMAL Iron ppm ASTM D5185m >51 45 Nickel ppm ASTM D5185m >11 2 Nickel ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >31 13 Lead ppm ASTM D5185m >266 A 143 Tin ppm ASTM D5185m >26 A 143 Vanadium ppm ASTM D5185m >22 14 Vanadium ppm ASTM D5185m >22 14 Vanadium ppm ASTM D5185m >22 14 Vanadium ppm ASTM D5185m >22	Oil Age	hrs	Client Info		398		
Filter Changed Sample Status Client Info Changed ABNORMAL Iron ppm ASTM D5185m >51 45 Chromium ppm ASTM D5185m >51 1 Nickel ppm ASTM D5185m >5 1 Titanium ppm ASTM D5185m >5 1 Aluminum ppm ASTM D5185m >26 7 Lead ppm ASTM D5185m >26 4 4 Tin ppm ASTM D5185m >26 4 4 Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >22 14 Yellow Metal scalar *Visual NONE Silicon ppm ASTM D7184	Filter Age	hrs	Client Info		398		
Sample Status ABNORMAL Iron ppm ASTM D5185m >51 45 Nickel ppm ASTM D5185m >51 1 Nickel ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <1 Lead ppm ASTM D5185m >26 7 Copper ppm ASTM D5185m >26 7 Vanadium ppm ASTM D5185m >26 7 White Metal scalar *Visual NONE NONE Vanadium ppm ASTM D5185m >20 6	Oil Changed		Client Info		Changed		
Iron ppm ASTM D5185m >51 45 Nickel ppm ASTM D5185m >1 Titanium ppm ASTM D5185m Silver ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <1 Lead ppm ASTM D5185m >26 7 Copper ppm ASTM D5185m >26 7 Tin ppm ASTM D5185m >26 7 White Metal scalar *Visual NONE Vanadium ppm ASTM D5185m >22 14 Vellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 6 Vater <t< th=""><th>Filter Changed</th><th></th><th>Client Info</th><th></th><th>Changed</th><th></th><th></th></t<>	Filter Changed		Client Info		Changed		
Chromium ppm ASTM D5185m >11 2 Nickel ppm ASTM D5185m >5 1 Titanium ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <13 Lead ppm ASTM D5185m >26 7 Vanadium ppm ASTM D5185m >26 4 4 Vanadium ppm ASTM D5185m >20 6 Vanadium ppm ASTM D5185m >20 6 Valow mpm ASTM D5185m >20 6 Silicon ppm ASTM D5185m >20 6 Soot % %	Sample Status				ABNORMAL		
Chromium ppm ASTM D5185m >11 2 Nickel ppm ASTM D5185m >5 1 Titanium ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >3 <13 Lead ppm ASTM D5185m >26 7 Vanadium ppm ASTM D5185m >26 4 4 Vanadium ppm ASTM D5185m >20 6 Vanadium ppm ASTM D5185m >20 6 Valow mpm ASTM D5185m >20 6 Silicon ppm ASTM D5185m >20 6 Soot % %							
Nickel ppm ASTM D5185m >5 1 Titanium ppm ASTM D5185m >3 <1 Silver ppm ASTM D5185m >3 <1 Aluminum ppm ASTM D5185m >31 13 Lead ppm ASTM D5185m >36 7 Copper ppm ASTM D5185m >4 4 Vanadium ppm ASTM D5185m >4 4 Vanadium ppm ASTM D5185m >20 6 Vellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >20 6 Vater WC Method >0.21 NEG	-				-		
Titanium ppm ASTM D5185m <1		ppm			_		
Silver ppm ASTM D5185m >3 <1				>5	-		
Aluminum ppm ASTM D5185m >31 13 Lead ppm ASTM D5185m >26 7 Copper ppm ASTM D5185m >26 143 Tin ppm ASTM D5185m >4 4 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >22 14 Potassium ppm ASTM D5185m >20 6 Sulicon ppm ASTM D7185m >20 6 Water WC Method >2.1 <1.0 Sulfation Abs/.tmm *ASTM D7624 >20 10.4 Sulfation Abs/.tmm *ASTM D715							
Lead ppm ASTM D5185m >26 7 Copper ppm ASTM D5185m >26 ▲ 143 Tin ppm ASTM D5185m >4 4 Vanadium ppm ASTM D5185m >4 4 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 6 Fuel WC Method >2.1 <1.0 Water WC Method >0.21 NEG Soot % % *ASTM D7624 >20 10.4 Sulfation Abs/rm< *ASTM D7644 >3 0.4 Sulfation Abs/rm< *ASTM D764							
Copper ppm ASTM D5185m >26 ▲ 143 Tin ppm ASTM D5185m >4 4 Vanadium ppm ASTM D5185m <1 White Metal scalar *Visual NONE NONE Yellow Metal scalar *Visual NONE NONE Solicon ppm ASTM D5185m >22 14 Potassium ppm ASTM D5185m >20 6 Fuel WC Method >2.1 <1.0 Water WC Method >0.21 NEG Sot % % *ASTM D784 >3 0.4 Sulfation Abs/rm *ASTM D784 >30 27.0 Sand/Dirt scalar					-		
Tin ppm ASTM D5185m >4 4 Vanadium ppm ASTM D5185m <1 White Metal scalar *Visual NONE Vellow Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Potassium ppm ASTM D5185m >20 6 Fuel WC Method >2.1 <1.0 Vater WC Method >0.21 NEG Solf % % 'ASTM D5185m >20 6 Vater WC Method >0.21 NEG Solf % % 'ASTM D7844 >3 0.4 Sulfation Abs/rm< "ASTM D715 >30 27.0 Sulfation Abs/rm< "ASTM D715 >30 27.0 Sulfation scalar<"Visual <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Vanadium ppm ASTM D5185m <1							
White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >22 14 Potassium ppm ASTM D5185m >20 6 Fuel WC Method >2.1 <1.0 Water WC Method >0.21 NEG Soot % % *ASTM D7844 >3 0.4 Sulfation Abs/.tmm *ASTM D7624 >20 10.4 Sulfation Abs/.tmm *ASTM D7624 >20 10.4 Sulfation Abs/.tmm *ASTM D761830 27.0 Sulfation scalar *Visual NONE NONE Sodium ppm ASTM D5185m NORML NORML B				>4	-		
Yellow Metal scalar *Visual NONE Silicon ppm ASTM D5185m >22 14 Potassium ppm ASTM D5185m >20 6 Fuel WC Method >2.1 <1.0 Water WC Method >0.21 NEG Soot % % *ASTM D7844 >3 0.4 Soot % % *ASTM D7624 >20 10.4 Sulfation Abs/.1mm<*ASTM D7624 >20 10.4 Sulfation Abs/.1mm<*ASTM D7624 >20 10.4 Debris scalar *Visual NONE Debris scalar *Visual NONE Appearance scalar *Visual NORML <							
Silicon ppm ASTM D5185m >22 14 Potassium ppm ASTM D5185m >20 6 Fuel WC Method >2.1 <1.0 Water WC Method >0.21 NEG Glycol WC Method >0.21 NEG Soot % % *ASTM D7844 >3 0.4 Sulfation Abs/cm<*ASTM D7624 >20 10.4 Sulfation Abs/rm<*ASTM D715 >30 27.0 Sulfation Abs/rm<*ASTM D7145 >30 27.0 Sulfation Abs/rm<*ASTM D7145 >30 27.0 Sulfation scalar *Visual NONE NONE Debris scalar *Visual NORM NORML <th></th> <th>scalar</th> <th></th> <th></th> <th>-</th> <th></th> <th></th>		scalar			-		
Potassium pp ASTM D5185m >20 6 Fuel WC Method >2.11 <1.0 Water WC Method >0.21 NEG Glycol WC Method >0.21 NEG Soot % % *ASTM D7844 >3 0.4 Soot % % *ASTM D7624 >20 10.4 Sulfation Abs/.mm *ASTM D7624 >20 10.4 Sulfation Abs/.mm *ASTM D7624 >20 10.4 Sulfation Abs/.mm *ASTM D7624 >0 27.0 Sulfation Abs/.mm *ASTM D7624 >0 NONE Debris scalar *Visual NONE NORML Appearance scalar *Visual NORML	Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium pp ASTM D5185m >20 6 Fuel WC Method >2.11 <1.0 Water WC Method >0.21 NEG Glycol WC Method >0.21 NEG Soot % % *ASTM D7844 >3 0.4 Soot % % *ASTM D7624 >20 10.4 Sulfation Abs/.mm *ASTM D7624 >20 10.4 Sulfation Abs/.mm *ASTM D7624 >20 10.4 Sulfation Abs/.mm *ASTM D7624 >0 27.0 Sulfation Abs/.mm *ASTM D7624 >0 NONE Debris scalar *Visual NONE NORML Appearance scalar *Visual NORML	Silicon	000	ACTM DE10Em		14		
Fuel WC Method >2.1 <1.0							
Water WC Method >0.21 NEG Glycol WC Method NEG Soot % % *ASTM D7844 >3 0.4 Nitration Abs/cm *ASTM D7844 >3 0.4 Sulfation Abs/.tm *ASTM D7624 >20 10.4 Sulfation Abs/.tm *ASTM D715 >30 27.0 Sulfation Abs/.tm *Visual NONE NONE Sulfation scalar *Visual NORL NORML Odor scalar *Visual NORML NORML Boron ppm ASTM D5185m >31 11		ppiii			-		
GlycolWC MethodNEGSoot %%*ASTM D7844>30.4NitrationAbs/cm*ASTM D7624>2010.4SulfationAbs/.1m*ASTM D7415>3027.0Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORNOREAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLBoronppmASTM D5185m>3111BoronppmASTM D5185m-3111MaganeseppmASTM D5185m274MagnesiumppmASTM D5185m7MagnesiumppmASTM D5185m862PhosphorusppmASTM D5185m11664ZincppmASTM D5185m1142SulfurppmASTM D5185m2916SulfurppmASTM D5185m2916SulfurppmASTM D5185m2916SulfurppmASTM D5185m2916Sulfur<							
Soot % % *ASTM D7844 >3 0.4 Nitration Abs/cm *ASTM D7624 >20 10.4 Sulfation Abs/cm *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Boron ppm ASTM D5185m >31 11 Barium				20.21			
NitrationAbs/cm*ASTM D7624>2010.4SulfationAbs/.1mm*ASTM D7415>3027.0Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDebrisscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*Visual>0.21NEGBoronppmASTM D5185m>3111BariumppmASTM D5185m6ManganeseppmASTM D5185m7MagnesiumppmASTM D5185m1564PhosphorusppmASTM D5185m890ZincppmASTM D5185m1142SulfurppmASTM D5185m22.7SulfurppmASTM D5185m22.7SulfurppmASTM D5185m22.7SulfurppmASTM D5185m22.7 <th></th> <th>0/2</th> <th></th> <th>~3</th> <th></th> <th></th> <th></th>		0/2		~3			
SulfationAbs/.1mm*ASTM D7415>3027.0Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCdorscalar*Visual>0.21NEGSodiumppmASTM D5185m>3111BoronppmASTM D5185m96BariumppmASTM D5185m66MagnesiumppmASTM D5185m7MagnesiumppmASTM D5185m862PhosphorusppmASTM D5185m890ZincppmASTM D5185m1142SulfurppmASTM D5185m2216OxidationAbs/.1mm*ASTM D5185m221.7Base Number (BN)mg KOHgASTM D28967.2					-		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.21NEGSodiumppmASTM D5185m>3111BoronppmASTM D5185m96BariumppmASTM D5185m66MalganeseppmASTM D5185m7MagnesiumppmASTM D5185m1564PhosphorusppmASTM D5185m890ZincppmASTM D5185m1142SulfurppmASTM D5185m22.7OxidationAbs/.1m*ASTM D5185m22.7Base Number (BN)mg KOHgASTM D28967.2					-		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNORNOREAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLBoronppmASTM D5185m>3111BariumppmASTM D5185m96MolybdenumppmASTM D5185m66ManganeseppmASTM D5185m77MagnesiumppmASTM D5185m11564PhosphorusppmASTM D5185m890ZincppmASTM D5185m1142SulfurppmASTM D5185m2217OxidationAbs/.1m*ASTM D5185m221.7Base Number (BN)mg KONgASTM D28967.2							
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.21NEGSodiumppmASTM D5185m>3111BoronppmASTM D5185m>3111BariumppmASTM D5185m6MolybdenumppmASTM D5185m6MagnesiumppmASTM D5185m77MagnesiumppmASTM D5185m1564PhosphorusppmASTM D5185m1142ZincppmASTM D5185m1142SulfurppmASTM D5185m2216SulfurppmASTM D5185m2217SulfurppmASTM D5185m2217DxidationAbs/.1m*ASTM D5185m2217Base Number (BN)mg KOHgASTM D28967.2							
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.21NEGSodiumppmASTM D5185m>3111BoronppmASTM D5185m>3111BariumppmASTM D5185m6MolybdenumppmASTM D5185m6MagneseppmASTM D5185m7MagnesiumppmASTM D5185m1564PhosphorusppmASTM D5185m1142ZincppmASTM D5185m1142SulfurppmASTM D5185m2216OxidationAbs/1m*ASTM D7144>2522.7Base Number (BN)mg KOHgASTM D28967.2					-		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.21 NEG Sodium ppm ASTM D5185m >31 11 Boron ppm ASTM D5185m >31 11 Barium ppm ASTM D5185m 96 Molybdenum ppm ASTM D5185m 6 Manganese ppm ASTM D5185m 7 Magnesium ppm ASTM D5185m 862 Calcium ppm ASTM D5185m 1564 Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/1mm<*ASTM D289					-		
Emulsified Waterscalar*Visual>0.21NEGSodiumppmASTM D5185m>3111BoronppmASTM D5185m>3111BariumppmASTM D5185m96BariumppmASTM D5185m6MolybdenumppmASTM D5185m274MagneseppmASTM D5185m7MagnesiumppmASTM D5185m862CalciumppmASTM D5185m1564PhosphorusppmASTM D5185m890ZincppmASTM D5185m1142SulfurppmASTM D5185m2916OxidationAbs/1mm*ASTM D7414>2522.7Base Number (BN)mg KOHgASTM D28967.2							
Sodium ppm ASTM D5185m >31 11 Boron ppm ASTM D5185m 96 Barium ppm ASTM D5185m 6 Barium ppm ASTM D5185m 6 Molybdenum ppm ASTM D5185m 274 Maganese ppm ASTM D5185m 7 Magnesium ppm ASTM D5185m 862 Calcium ppm ASTM D5185m 1564 Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm *ASTM D2386 7.2					-		
Boron ppm ASTM D5185m 96 Barium ppm ASTM D5185m 6 Molybdenum ppm ASTM D5185m 6 Molybdenum ppm ASTM D5185m 274 Manganese ppm ASTM D5185m 7 Magnesium ppm ASTM D5185m 862 Calcium ppm ASTM D5185m 1564 Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 2916 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm<*ASTM D7414 >25 22.7							
Barium ppm ASTM D5185m 6 Molybdenum ppm ASTM D5185m 274 Manganese ppm ASTM D5185m 7 Magnesium ppm ASTM D5185m 862 Calcium ppm ASTM D5185m 1564 Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm *ASTM D5185m 2916 Base Number (BN) mg KOHy ASTM D2896 7.2	Sodium	ppm	ASTM D5185m	>31	11		
Molybdenum ppm ASTM D5185m 274 Manganese ppm ASTM D5185m 7 Magnesium ppm ASTM D5185m 7 Magnesium ppm ASTM D5185m 862 Calcium ppm ASTM D5185m 1564 Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm< *ASTM D7414 >25 22.7 Base Number (BN) mg KOHg ASTM D2896 7.2	Boron	ppm	ASTM D5185m		96		
Manganese ppm ASTM D5185m 7 Magnesium ppm ASTM D5185m 862 Calcium ppm ASTM D5185m 1564 Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm *ASTM D7141 >25 22.7 Base Number (BN) mg KOHg ASTM D2896 7.2	Barium	ppm	ASTM D5185m		6		
Magnesium ppm ASTM D5185m 862 Calcium ppm ASTM D5185m 1564 Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm *ASTM D7414 >25 22.7 Base Number (BN) mg KOH/g ASTM D2896 7.2	Molybdenum	ppm	ASTM D5185m		274		
Calcium ppm ASTM D5185m 1564 Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm *ASTM D7414<>25 22.7 Base Number (BN) mg KOH/g ASTM D2896 7.2	Manganese	ppm	ASTM D5185m		7		
Phosphorus ppm ASTM D5185m 890 Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/1mm *ASTM D7144 >25 22.7 Base Number (BN) mg KOH/g ASTM D2896 7.2	Magnesium	ppm	ASTM D5185m		862		
Zinc ppm ASTM D5185m 1142 Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm *ASTM D7414 >25 22.7 Base Number (BN) mg KOH/g ASTM D2896 7.2	Calcium	ppm	ASTM D5185m		1564		
Sulfur ppm ASTM D5185m 2916 Oxidation Abs/.1mm *ASTM D7414 >25 22.7 Base Number (BN) mg KOH/g ASTM D2896 7.2	Phosphorus	ppm	ASTM D5185m		890		
Oxidation Abs/.1mm *ASTM D7414 >25 22.7 Base Number (BN) mg KOH/g ASTM D2896 7.2		ppm	ASTM D5185m		1142		
Base Number (BN) mg KOH/g ASTM D2896 7.2	Sulfur		ASTM D5185m		2916		
		Abs/.1mm	*ASTM D7414	>25	22.7		
Visc @ 100°C cSt ASTM D445 9.6	()	mg KOH/g	ASTM D2896		7.2		
	Visc @ 100°C	cSt	ASTM D445		9.6		

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WE0006651 Received 25135 ONE AVIATION WAY SW : 23 Feb 2024 Lab Number : 06098075 Tested : 25 Feb 2024 MADISON, AL Unique Number : 10896305 Diagnosed : 26 Feb 2024 - Don Baldridge US 35756 Test Package : CONST (Additional Tests: TBN) Contact: BOBBY LUCKY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. warriorparts033@gmail.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)