

Machine Id JOHN DEERE 180G 1FF180GXAJF020850 Component Right Final Drive Fluid JOHN DEERE GL-5 80W90 (6 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

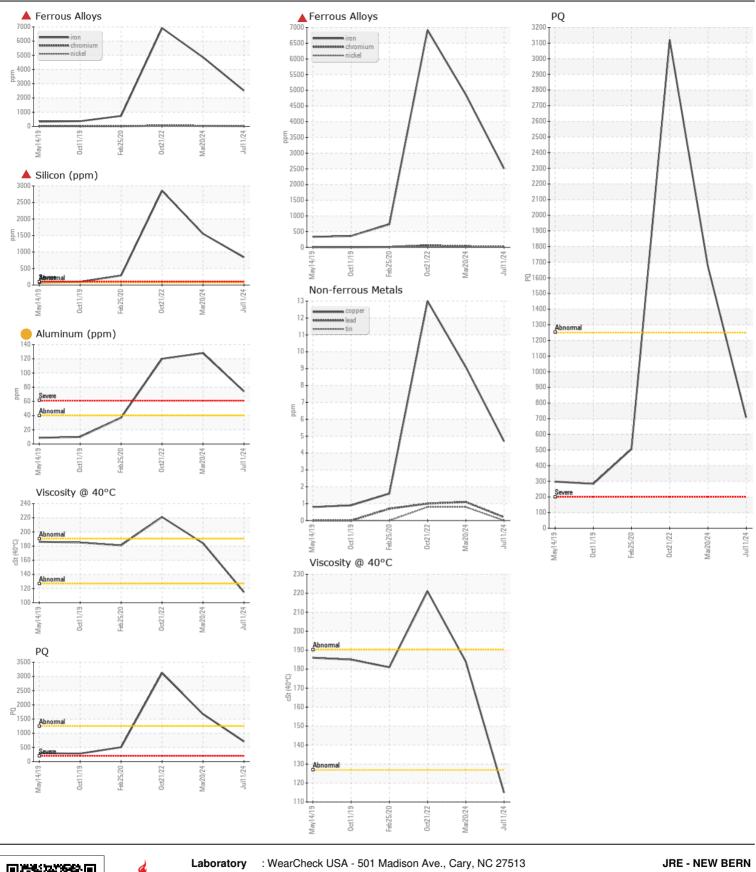
FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

TestUOMMethodLimit/AbCurrentHistory1History2Sample NumberClient InfoIN JU221048JR0197103JR0136173Sample DateClient Info11 Ju1202420 Mar 202421 Oct 2022Machine AgehrsClient Info551450513963Oil AgehrsClient InfoInfo10000Oil ChangedClient InfoNot ChangedNot ChangedChangedNot ChangedFilter AgehrsClient InfoNot ChangedNoneN/ASample StatusClient InfoN/ANoneN/ASample StatusSEVERESEVERESEVEREPQASTM D5185m>7504 25104 48646918ChromiumppmASTM D5185m>94 183.356 2NickelppmASTM D5185m>1074128120SilverppmASTM D5185m>4074128120LeadppmASTM D5185m>405913TinppmASTM D5185m>405913TinppmASTM D5185m>405913VanadiumppmASTM D5185m>405913TinppmASTM D5185m>405913VanadiumppmASTM D5185m>405913CopperppmASTM D5185m>20112245Vanadi					\sim		
Sample Date Client Into 11 Jul 202 20 Mar2024 21 Oct 2022 Machine Age hrs Client Into 5514 5051 3963 Oil Age hrs Client Into 4109 1405 2000 Filter Age hrs Client Into Not Changed Not Changed Not Changed Filter Changed Client Into N/A None N/A Sample Status SEVERE SEVERE SEVERE SEVERE PQ ASTM D8184 >1250 A8 4864 6918 Chromium ppm ASTM D5185 >10 7 412 49 Silver ppm ASTM D5185 >10 74 128 120 Lead ppm ASTM D51855 >40 74 128 120 Vanadium ppm ASTM D51855 >40 5 9 13 Tin ppm ASTM D51855 >40 5 9 13 Tin ppm	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age hrs Client Info 5514 5051 3963 Oil Age hrs Client Info 4109 1405 2000 Filter Age hrs Client Info Not Changd Not Changd Changed Filter Changed Client Info N/A None N/A Sample Status SEVERE SEVERE SEVERE SEVERE PQ ASTM D5185m >750 2510 44864 6918 Chromium ppm ASTM D5185m >9 18 35 62 Nickel ppm ASTM D5185m >9 18 35 62 Silver ppm ASTM D5185m >9 10 21 49 Silver ppm ASTM D5185m >40 5 9 13 Clead ppm ASTM D5185m >40 5 9 13 Tin ppm ASTM D5185m >10 0 <1 1 1 2 Van	Sample Number		Client Info		JR0221048	JR0197103	JR0136173
Oil Age hrs Client Info 4109 1405 2000 Filter Age hrs Client Info 0 0 0 0 Gil Changed Client Info Not Changd Not Changd Changed Filter Changed Client Info N/A None N/A Sample Status SEVERE SEVERE SEVERE SEVERE PQ ASTM D5185m >750 A 2510 A 4864 A 6918 Chromium ppm ASTM D5185m >9 A 18 A 35 A 62 Nickel ppm ASTM D5185m >10 7 A 12 A 19 Titanium ppm ASTM D5185m >10 0 0 0 Aluminum ppm ASTM D5185m >10 0 <1 1 1 Copper ppm ASTM D5185m >10 0 <1 1 1 Vanadium ppm ASTM D5185m >10 0 <1 1 2	Sample Date		Client Info		11 Jul 2024	20 Mar 2024	21 Oct 2022
Filter Age hrs Client Info 0 0 0 Oil Changed Client Info Not Changd Not Changd Changed Filter Changed Client Info N/A None N/A Sample Status SEVERE SEVERE SEVERE SEVERE PQ ASTM D5186 >750 A 864 A 6918 Chromium ppm ASTM D5185 >9 A 18 A 35 A 62 Nickel ppm ASTM D5185 >9 A 18 A 35 A 62 Nickel ppm ASTM D5185 >10 7 A 12 A 19 Silver ppm ASTM D5185 >10 74 128 120 Lead ppm ASTM D5185 >40 74 128 120 Vanadium ppm ASTM D5185 >40 5 9 13 Tin ppm ASTM D5185 >70 A 838 A 1554 A 2854 Valoutimum ppm	Machine Age	hrs	Client Info		5514	5051	3963
Oli Changed Filter ChangedClient InfoNot Changed N/ANoneN/ASample StatusClient InfoN/ASEVERESEVERESEVEREPQASTM D8184>125070816733120IronppmASTM D8185>7504251048646918ChromiumppmASTM D5185>1074124NickelppmASTM D5185>1074124SilverppmASTM D5185>1074128120LeadppmASTM D5185>4074128120LeadppmASTM D5185>4074128120VanadiumppmASTM D5185>405913TinppmASTM D5185>405913YanadiumppmASTM D5185>100<12White Metalscalar'VisualNONENONENONENONEYellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>20112245WaterWC Method>0.075NEGNONENONENONESiliconppmASTM D5185>20112245Oberisscalar'VisualNONENONENONENONESodiumppmASTM D5185>20112245Odorscalar'Visual <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>4109</th> <th>1405</th> <th>2000</th>	Oil Age	hrs	Client Info		4109	1405	2000
Fitter Changed Client Info N/A None N/A Sample Status SEVERE SEVERE SEVERE SEVERE SEVERE PQ ASTM D8184<>1250 708 1673 3120 Iron ppm ASTM D5185m<>700 2510 4 4864 6918 Chromium ppm ASTM D5185m<>10 7 12 19 Titanium ppm ASTM D5185m 10 21 49 Silver ppm ASTM D5185m 10 21 49 Silver ppm ASTM D5185m 10 0 0 0 Aluminum ppm ASTM D5185m<>10 0 <11 1 1 Copper ppm ASTM D5185m<>10 0 <11 1 2 Vanadium ppm ASTM D5185m<>10 0 <11 2 4 Vanadium ppm ASTM D5185m<>75 A 838 1554 2854 Yellow Metal scalar<*Visual NONE	Filter Age	hrs	Client Info		0	0	0
Sample Status SEVERE SEVERE SEVERE SEVERE SEVERE PQ ASTM D8184 >1250 708 1673 3120 Iron ppm ASTM D5185m >70 4 2510 4 4864 6 6918 Chromium ppm ASTM D5185m >90 4 18 3 55 6 62 Nickel ppm ASTM D5185m >10 7 12 4 19 Titanium ppm ASTM D5185m >10 74 128 120 Lead ppm ASTM D5185m >40 74 128 120 Lead ppm ASTM D5185m >40 5 9 13 Tin ppm ASTM D5185m >10 0 <1 1 2 Vanadium ppm ASTM D5185m >10 0 <11 2 4864 Yellow Metal scalar Yisual NONE NONE NONE NONE Yellow Metal scalar Yisual	Oil Changed		Client Info		Not Changd	Not Changd	Changed
PQ ASTM D8184 >1250 708 1673 3120 Iron ppm ASTM D5185m >750 A 2510 A 4864 A 6918 Chromium ppm ASTM D5185m >9 A 18 A 35 A 62 Nickel ppm ASTM D5185m >90 A 10 21 49 Silver ppm ASTM D5185m >40 0 0 0 Aluminum ppm ASTM D5185m >40 74 12 9 Itead ppm ASTM D5185m >40 0 11 1 Copper ppm ASTM D5185m >40 0 <1 11 1 Varadium ppm ASTM D5185m >40 8 100 <1 11 2 White Metal scalar *Usual NONE NONE NONE NONE Yellow Metal scalar *Usual NONE NONE NONE NONE Silicon ppm	Filter Changed		Client Info		N/A	None	N/A
Iron ppm ASTM D5185m >750 ▲ 2510 ▲ 4864 ▲ 6918 Chromium ppm ASTM D5185m >90 ▲ 18 ▲ 35 ▲ 62 Nickel ppm ASTM D5185m >10 7 ▲ 12 ▲ 19 Titanium ppm ASTM D5185m >10 7 ▲ 12 ▲ 19 Silver ppm ASTM D5185m >10 74 ● 128 ● 120 Lead ppm ASTM D5185m >40 ● 74 ● 128 ● 120 Lead ppm ASTM D5185m >10 0 <11 1 1 Copper ppm ASTM D5185m >40 5 9 13 Tin ppm ASTM D5185m >10 0 <11 2 <11 Vanadium ppm ASTM D5185m >10 0 <11 2 <15 Yellow Metal scalar *Visual NONE NONE NONE NONE NONE	Sample Status				SEVERE	SEVERE	SEVERE
Chromium ppm ASTM D5185m >9 A 18 A 35 A 62 Nickel ppm ASTM D5185m >10 7 A 12 19 Titanium ppm ASTM D5185m I0 7 A 12 49 Silver ppm ASTM D5185m >40 74 128 120 Lead ppm ASTM D5185m >40 74 128 120 Lead ppm ASTM D5185m >40 5 9 13 Tin ppm ASTM D5185m >40 0 <11	PQ		ASTM D8184	>1250	708	1673	3120
Chromium ppm ASTM D5185m >9 A 18 A 35 A 62 Nickel ppm ASTM D5185m >10 7 A 12 A 19 Titanium ppm ASTM D5185m 10 7 A 12 49 Silver ppm ASTM D5185m >40 74 128 120 Lead ppm ASTM D5185m >40 74 128 120 Lead ppm ASTM D5185m >40 5 9 13 Tin ppm ASTM D5185m >40 0 <11	Iron	ppm	ASTM D5185m	>750	2 510	▲ 4864	▲ 6918
Nickel ppm ASTM D5185m >10 7 ▲ 12 ▲ 19 Titanium ppm ASTM D5185m 10 21 49 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >40 74 128 120 Lead ppm ASTM D5185m >40 5 9 13 Tin ppm ASTM D5185m >40 0 <1 <1 1 Vanadium ppm ASTM D5185m >10 0 <1 <1 2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yelow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m<>75 & 838 ▲ 1554 ▲ 2854 Potassium ppm ASTM D5185m<>20 11 22 45 Water wC Method >0.075	Chromium		ASTM D5185m	>9	1 8	3 5	6 2
Number Ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >40 74 128 120 Lead ppm ASTM D5185m >15 <1 1 1 Copper ppm ASTM D5185m >40 5 9 13 Tin ppm ASTM D5185m >10 0 <1 1 2 Wate ppm ASTM D5185m >10 0 <1 1 2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >75 A 838 A 1554 A 2854 Potassium ppm ASTM D5185m >20 11 22 45 Water wC Method >0.075 NEG NORE NORE NORE	Nickel		ASTM D5185m	>10	7	1 2	1 9
Aluminum ppm ASTM D5185m >40 74 128 120 Lead ppm ASTM D5185m >15 <1	Titanium	ppm	ASTM D5185m		10	21	49
Lead ppm ASTM D5185m >15 <1	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >40 5 9 13 Tin ppm ASTM D5185m >10 0 <1 <1 Vanadium ppm ASTM D5185m >10 0 <1 1 2 White Metal scalar *Visual NONE NONE NONE NONE MODER Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >75 ▲ 838 ▲ 1554 ▲ 2854 Potassium ppm ASTM D5185m >75 ▲ 838 ▲ 1554 ▲ 2854 Water WC Method >0.075 NEG NEG NEG Sad/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORM NORML NORML NORML NORML Odor scalar *Visual NOR5 NEG NEG NEG	Aluminum	ppm	ASTM D5185m	>40	7 4	128	120
TinppmASTM D5185m>100<1	Lead	ppm	ASTM D5185m	>15	<1	1	1
VanadiumppmASTM D5185m<1	Copper	ppm	ASTM D5185m	>40	5	9	13
White Metalscalar*VisualNONENONENONENONEMODERYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185m>75 A 838 A 1554 2 854PotassiumppmASTM D5185m>20112245WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m<>51047BoronppmASTM D5185m152166BariumppmASTM D5185m2266ManganeseppmASTM D5185m882315CalciumppmASTM D5185m8267162PhosphorusppmASTM D5185m378423689ZincppmASTM D5185m232339SulfurppmASTM D5185m1128742280245943Visc @ 40°CcStASTM D5185m115 <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>10</th> <th>0</th> <th><1</th> <th><1</th>	Tin	ppm	ASTM D5185m	>10	0	<1	<1
Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>75▲ 838▲ 1554▲ 2854PotassiumppmASTM D5185m>20112245WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>51047BoronppmASTM D5185m>510<1166BariumppmASTM D5185m1152166MagnesiumppmASTM D5185m173658MagnesiumppmASTM D5185m882315CalciumppmASTM D5185m378423689ZincppmASTM D5185m232339SulfurppmASTM D5185m1128742280245943Visc @ 40°CcStASTM D5185m115184221	Vanadium	ppm	ASTM D5185m		<1	1	2
SiliconppmASTM D5185m>75& 838& 1554& 2854PotassiumppmASTM D5185m>20112245WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>51047BoronppmASTM D5185m>510<1166ManganeseppmASTM D5185m22666ManganeseppmASTM D5185m226658MagnesiumppmASTM D5185m8267162PhosphorusppmASTM D5185m378423689ZincppmASTM D5185m232339SulfurppmASTM D5185m232339SulfurppmASTM D5185m115184221	White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
PotassiumppmASTM D5185m>20112245WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>51047BoronppmASTM D5185m510<166BariumppmASTM D5185m2266ManganeseppmASTM D5185m173658MagnesiumppmASTM D5185m8267162PhosphorusppmASTM D5185m232339ZincppmASTM D5185m232339SulfurppmASTM D5185m128742280245943Visc @ 40°CcStASTM D445115184221	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
WaterWC Method>0.075NEGNEGNEGSiltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>51047BoronppmASTM D5185m>510<166BariumppmASTM D5185m0<16MagnesiumppmASTM D5185m173658MagnesiumppmASTM D5185m82677162PhosphorusppmASTM D5185m378423689ZincppmASTM D5185m232339SulfurppmASTM D5185m115184221	Silicon	ppm	ASTM D5185m	>75	& 838	1 554	▲ 2854
Siltscalar*VisualNONEMODERNONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>51047BoronppmASTM D5185m0<166BariumppmASTM D5185m0<16MolybdenumppmASTM D5185m173658MagnesiumppmASTM D5185m8267162PhosphorusppmASTM D5185m378423689ZincppmASTM D5185m232339SulfurppmASTM D5185m115184221	Potassium	ppm	ASTM D5185m	>20	11	22	45
Debrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>51047BoronppmASTM D5185m<152166BariumppmASTM D5185m0<16MolybdenumppmASTM D5185m266MagnesiumppmASTM D5185m173658MagnesiumppmASTM D5185m8267162PhosphorusppmASTM D5185m378423689ZincppmASTM D5185m232339SulfurppmASTM D5185m115184221	Water		WC Method	>0.075	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>51047BoronppmASTM D5185m152166BariumppmASTM D5185m0<16MolybdenumppmASTM D5185m266MagnesiumppmASTM D5185m173658MagnesiumppmASTM D5185m8267162PhosphorusppmASTM D5185m378423689ZincppmASTM D5185m232339SulfurppmASTM D5185m115184221	Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Appearancescalar*VisualNORMLNOR	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.075NEGNEGNEGSodiumppmASTM D5185m>51047BoronppmASTM D5185m51047BariumppmASTM D5185m0<166BariumppmASTM D5185m0<16MolybdenumppmASTM D5185m2266ManganeseppmASTM D5185m173658MagnesiumppmASTM D5185m8267162PhosphorusppmASTM D5185m378423689ZincppmASTM D5185m232339SulfurppmASTM D5185m115184221	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.075 NEG NEG NEG Sodium ppm ASTM D5185m >51 0 4 7 Boron ppm ASTM D5185m >51 0 4 7 Boron ppm ASTM D5185m 15 21 66 Barium ppm ASTM D5185m 0 <1 6 Molybdenum ppm ASTM D5185m 0 <1 6 Manganese ppm ASTM D5185m 17 36 58 Magnesium ppm ASTM D5185m 88 23 15 Calcium ppm ASTM D5185m 882 67 162 Phosphorus ppm ASTM D5185m 378 423 689 Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m >51 0 4 7 Boron ppm ASTM D5185m 15 21 66 Barium ppm ASTM D5185m 0 <1 6 Barium ppm ASTM D5185m 0 <1 6 Molybdenum ppm ASTM D5185m 2 6 6 Manganese ppm ASTM D5185m 17 36 58 Magnesium ppm ASTM D5185m 8 23 15 Calcium ppm ASTM D5185m 82 67 162 Phosphorus ppm ASTM D5185m 378 423 689 Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 15 21 66 Barium ppm ASTM D5185m 0 <1 6 Molybdenum ppm ASTM D5185m 0 <1 6 Molybdenum ppm ASTM D5185m 2 6 6 Manganese ppm ASTM D5185m 17 36 58 Magnesium ppm ASTM D5185m 8 23 15 Calcium ppm ASTM D5185m 82 67 162 Phosphorus ppm ASTM D5185m 378 423 689 Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
Barium ppm ASTM D5185m 0 <1	Sodium	ppm	ASTM D5185m	>51	0	4	7
Molybdenum ppm ASTM D5185m 2 6 6 Manganese ppm ASTM D5185m 17 36 58 Magnesium ppm ASTM D5185m 8 23 15 Calcium ppm ASTM D5185m 82 67 162 Phosphorus ppm ASTM D5185m 378 423 689 Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Boron	ppm	ASTM D5185m		15	21	66
Manganese ppm ASTM D5185m 17 36 58 Magnesium ppm ASTM D5185m 8 23 15 Calcium ppm ASTM D5185m 82 67 162 Phosphorus ppm ASTM D5185m 378 423 689 Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Barium	ppm	ASTM D5185m		0	<1	6
Magnesium ppm ASTM D5185m 8 23 15 Calcium ppm ASTM D5185m 82 67 162 Phosphorus ppm ASTM D5185m 378 423 689 Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Molybdenum	ppm	ASTM D5185m		2	6	6
Calcium ppm ASTM D5185m 82 67 162 Phosphorus ppm ASTM D5185m 378 423 689 Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Manganese	ppm	ASTM D5185m		17	36	58
Phosphorus ppm ASTM D5185m 378 423 689 Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Magnesium	ppm	ASTM D5185m		8	23	15
Zinc ppm ASTM D5185m 23 23 39 Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Calcium	ppm	ASTM D5185m		82	67	162
Sulfur ppm ASTM D5185m 12874 22802 45943 Visc @ 40°C cSt ASTM D445 115 184 221	Phosphorus	ppm	ASTM D5185m		378	423	689
Visc @ 40°C cSt ASTM D445 115 184 221	Zinc	ppm	ASTM D5185m		23	23	39
-	Sulfur	ppm	ASTM D5185m		12874	22802	45943
Submitted By: Dylan Sanderson	Vier @ 1000	~C+	ACTM D445		115	184	221

Report Id: RWMNEW [WUSCAR] 06238041 (Generated: 07/18/2024 11:11:10) Rev: 1

Submitted By: Dylan Sanderson



3816 MARTIN LUTHER KING BLVD : JR0221048 Sample No. Received : 16 Jul 2024 Ē : 06238041 NEW BERN, NC Lab Number Tested : 17 Jul 2024 : 18 Jul 2024 - Don Baldridge US 28562 Unique Number : 11126875 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: NEW BERN SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.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)