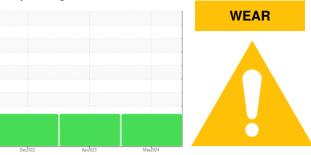


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JOHN DEERE 118

Front Differential Fluid MOBIL MOBILFLUID 424 (--- QTS)

DIAGNOSIS

Recommendation

The oil 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.

🔺 Wear

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

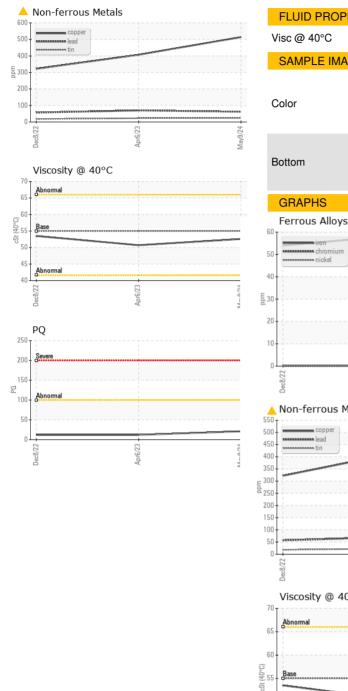
Fluid Condition

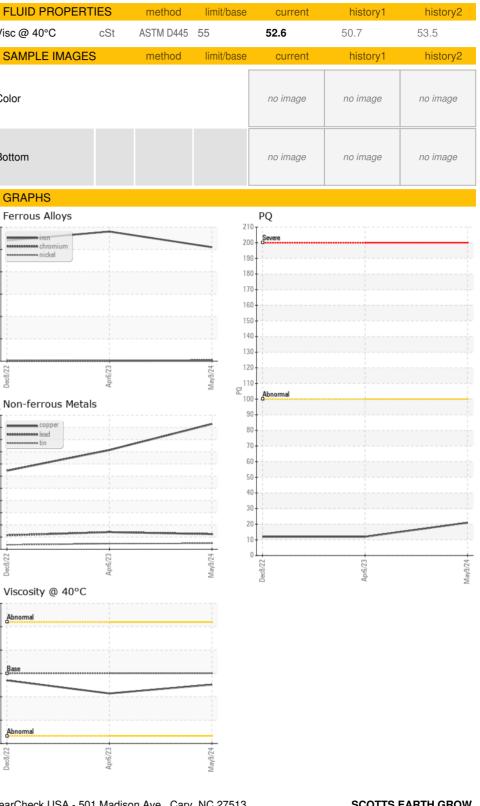
The condition of the oil is acceptable for the time in service.

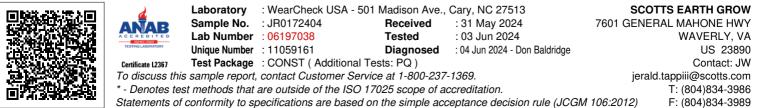
Sample Date Info 09 May 2024 06 Apr 2023 08 Dec 2022 Machine Age hrs Client Info 4654 2359 1618 Oil Age hrs Client Info 2354 2359 1618 Oil Changed Client Info 2354 2359 1618 Oil Age Client Info 2354 2359 1618 CONTAMINATION method limit/base current history1 history2 Water WC Method >.2 NEG NEG NEG VEAR METALS method limit/base current history1 history2 PQ ASTM D51555 500 51 58 54 Chromium ppm ASTM D51555 0 <1 <1 Nickel ppm ASTM D51555 0 <1 <1 <1 Vitanium ppm ASTM D51555 10 <24 23 A18 Alaminum ppm ASTM D51555 52 0 </th <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age OI Age OI Age OI ChangedIsisClient Info465423591618OI Age OI Changed Sample StatusClient InfoChanged ABNORMAABNO	Sample Number		Client Info		JR0172404	JR0117815	JR0117940
Oil AgehrsClient Info235423591618Oil ChangedClient InfoChangedABNORMALABNORMALABNORMALABNORMALCONTAMINATIONmethodImit/basecurrenthistory1history2WaterWC Method>.2NEGNEGNEGWEAR METALSmethodImit/basecurrenthistory1history2PQASTM 05185m>500515854ChromiumppmASTM 05185m>10<1	Sample Date		Client Info		09 May 2024	06 Apr 2023	08 Dec 2022
Oil Changed Sample Status Client Info Nethod Changed ABNORMAL Changed ABNORMAL Not Changd ABNORMAL CONTAMINATION method limibbase current history1 Mistory2 Water WC Method >.2 NEG NEG NEG WEAR METALS method limibbase current history1 filstory2 PQ ASTM 05185m >500 51 58 54 Chromium ppm ASTM 05185m >10 <1	Machine Age	hrs	Client Info		4654	2359	1618
Sample Statusmethodimit/basecurrenthistory1history2WaterWC Method>.2NEGNEGNEGWEAR METALSmethodimit/basecurrenthistory1history2PQASTM D818421121212IronppmASTM D8185>500515854ChromiumppmASTM D5185>10<1	Oil Age	hrs	Client Info		2354	2359	1618
Sample Statusmethodimit/basecurrenthistory1history2WaterWC Method>.2NEGNEGNEGWEAR METALSmethodimit/basecurrenthistory1history2PQASTM D818421121212IronppmASTM D8185>500515854ChromiumppmASTM D5185>10<1	Oil Changed		Client Info		Changed	Changed	Not Changd
Water WC Method >.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM 05185m >500 51 58 54 Chromium ppm ASTM 05185m >10 <1	Sample Status				-	•	ABNORMAL
WEAR METALS method limit/base current history1 history2 PQ ASTM D8184 21 12 12 Iron ppm ASTM D8185 >500 51 58 54 Chromium ppm ASTM D5185m >10 <1	CONTAMINATION	١	method	limit/base	current	history1	history2
PQ ASTM D8184 21 12 12 Iron ppm ASTM D8185m >500 51 58 54 Chromium ppm ASTM D8185m >10 0 0 0 Titanium ppm ASTM D8185m >0 0 0 0 Silver ppm ASTM D8185m >25 0 <1 <1 Lead ppm ASTM D8185m >25 0 <1 <1 Lead ppm ASTM D8185m >25 0 <1 <1 Lead ppm ASTM D8185m >10 0 0 0 Copper ppm ASTM D8185m >10 0 0 0 Cadmium ppm ASTM D8185m 0 0 0 0 ASTM D8185m 110 4 5 5 3 1 1 1 1 1 1 1 1 1 1 1 1 <t< th=""><th>Water</th><th></th><th>WC Method</th><th>>.2</th><th>NEG</th><th>NEG</th><th>NEG</th></t<>	Water		WC Method	>.2	NEG	NEG	NEG
Iron ppm ASTM D5185m >500 51 58 54 Chromium ppm ASTM D5185m >10 <1	WEAR METALS		method	limit/base	current	history1	history2
ChromiumppmASTM D5185m>10<1<1<1<1NickelppmASTM D5185m>100000SilverppmASTM D5185m0000AluminumppmASTM D5185m>250<1	PQ		ASTM D8184		21	12	12
Chromium ppm ASTM D5185m >10 <1 <1 <1 Nickel ppm ASTM D5185m >10 0 0 0 Silver ppm ASTM D5185m >20 0 0 0 Auminum ppm ASTM D5185m >25 0 <1	Iron	ppm	ASTM D5185m	>500	51	58	54
NickelppmASTM D5185m>100000TitaniumppmASTM D5185m0000SilverppmASTM D5185m2250<1	Chromium		ASTM D5185m	>10	<1	<1	<1
TitaniumppmASTM D5185m000SilverppmASTM D5185m>250<1	Nickel		ASTM D5185m	>10		0	0
Silver ppm ASTM D5185m >25 0 <1 <1 Lead ppm ASTM D5185m >25 0 <1					-		
Aluminum ppm ASTM D5185m >25 0 <1 <1 Lead ppm ASTM D5185m >25 A 62 A 70 A 57 Copper ppm ASTM D5185m >100 A 514 A 407 A 322 Tin ppm ASTM D5185m >10 A 24 23 A 18 Vanadium ppm ASTM D5185m 0 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 0 0 ASTM D5185m 110 4 5 5 6 1 <td></td> <td></td> <td></td> <td></td> <th>-</th> <td></td> <td></td>					-		
LeadppmASTM D5185m>25▲ 62▲ 70▲ 57CopperppmASTM D5185m>100▲ 514▲ 407▲ 322TinppmASTM D5185m>10▲ 24▲ 23▲ 18VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m0000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m11045BariumppmASTM D5185m7<1				>25	-		
CopperppmASTM D5185m>100▲ 514▲ 407▲ 322TinppmASTM D5185m>10▲ 24▲ 23▲ 18VanadiumppmASTM D5185m000CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m11045BariumppmASTM D5185m7<1							
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CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m11045BariumppmASTM D5185m000MolybdenumppmASTM D5185m7<1				>10			
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m11045BariumppmASTM D5185m000MolybdenumppmASTM D5185m7<1					-		
BoronppmASTM D5185m11045BariumppmASTM D5185m000MolybdenumppmASTM D5185m7<1	Cadmium	ppm	ASTM DS185m		U	0	0
BariumppmASTM D5185m000MolybdenumppmASTM D5185m7<1<1ManganeseppmASTM D5185m829183CalciumppmASTM D5185m324230253216PhosphorusppmASTM D5185m12319751028ZincppmASTM D5185m131411471151SulfurppmASTM D5185m786937484105CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m564PotassiumppmASTM D5185m>200<13VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORML	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m7<1<1ManganeseppmASTM D5185m<1	Boron	ppm	ASTM D5185m		110	4	5
ManganeseppmASTM D5185m<121MagnesiumppmASTM D5185m829183CalciumppmASTM D5185m324230253216PhosphorusppmASTM D5185m12319751028ZincppmASTM D5185m131411471151SulfurppmASTM D5185m786937484105CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75944SodiumppmASTM D5185m>75944PotassiumppmASTM D5185m>200<1	Barium	ppm	ASTM D5185m		0	0	0
MagnesiumppmASTM D5185m829183CalciumppmASTM D5185m324230253216PhosphorusppmASTM D5185m12319751028ZincppmASTM D5185m131411471151SulfurppmASTM D5185m786937484105CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75944SodiumppmASTM D5185m>75944PotassiumppmASTM D5185m>200<1	Molybdenum	ppm	ASTM D5185m		7	<1	<1
CalciumppmASTM D5185m324230253216PhosphorusppmASTM D5185m12319751028ZincppmASTM D5185m131411471151SulfurppmASTM D5185m786937484105CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75944SodiumppmASTM D5185m>75944PotassiumppmASTM D5185m>200<1	Manganese	ppm	ASTM D5185m		<1	2	1
PhosphorusppmASTM D5185m12319751028ZincppmASTM D5185m131411471151SulfurppmASTM D5185m786937484105CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75944SodiumppmASTM D5185m>75944PotassiumppmASTM D5185m>200<1	Magnesium	ppm	ASTM D5185m		82	91	83
ZincppmASTM D5185m131411471151SulfurppmASTM D5185m786937484105CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75944SodiumppmASTM D5185m>75944PotassiumppmASTM D5185m>200<1	Calcium	ppm	ASTM D5185m		3242	3025	3216
SulfurppmASTM D5185m786937484105CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75944SodiumppmASTM D5185m>75944PotassiumppmASTM D5185m>200<1	Phosphorus	ppm	ASTM D5185m		1231	975	1028
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75944SodiumppmASTM D5185m>75944PotassiumppmASTM D5185m>200<1	Zinc	ppm	ASTM D5185m		1314	1147	1151
SiliconppmASTM D5185m>75944SodiumppmASTM D5185m564PotassiumppmASTM D5185m>200<1	Sulfur	ppm	ASTM D5185m			3748	4105
SodiumppmASTM D5185m564PotassiumppmASTM D5185m>200<13VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>200<13VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	Silicon	ppm	ASTM D5185m	>75	9	4	4
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	Sodium	ppm	ASTM D5185m		5	6	4
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	0	<1	3
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG	Sand/Dirt	scalar	*Visual	NONE		NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>.2NEGNEG			*Visual				
Emulsified Water scalar *Visual >.2 NEG NEG NEG							
	Free Water	scalar	*Visual		NEG		



OIL ANALYSIS REPORT







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Contact/Location: JW - SCOWAV

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