

PROBLEM SUMMARY

Sample Rating Trend

WEAR

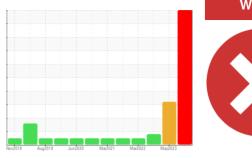
JOHN DEERE 1FF350GXPJF812880

Component

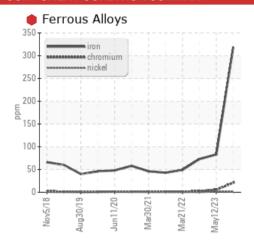
Diesel Fngine

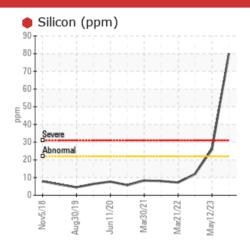
Diesel Engine

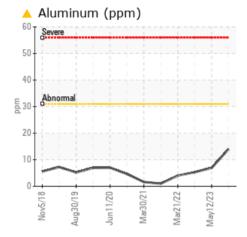
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (29 GAL)



COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you perform a compression test, and a borescope exam. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS Sample Status

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>51	319	▲ 83	▲ 73
Chromium	ppm	ASTM D5185m	>11	2 1	5	2
Aluminum	ppm	ASTM D5185m	>31	14	<u>^</u> 7	5
Silicon	ppm	ASTM D5185m	>22	● 80	<u>^</u> 26	12

Customer Id: FITWINVA Sample No.: JR0184448 Lab Number: 05965132 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.		
Monitor			?	We advise that you perform a compression test, and a borescope exam.		
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.		
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.		
Resample			?	We recommend an early resample to monitor this condition.		
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.		

HISTORICAL DIAGNOSIS

12 May 2023 Diag: Don Baldridge



We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



14 Oct 2022 Diag: Don Baldridge

WEAR



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. Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



21 Mar 2022 Diag: Wes Davis

NORMAL



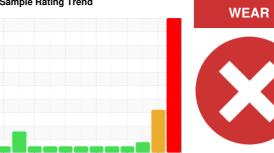
Resample at the next service interval to monitor. Metal levels are typical for a components first oil change. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



JOHN DEERE 1FF350GXPJF812880

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We advise that you perform a compression test, and a borescope exam. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION method limit/base current history1 history2 Sample Number Client Info JR0184448 JR0172926 JR0125552 Sample Date Client Info 5747 5476 4967 Oil Age hrs Client Info 5747 5476 4967 Oil Changed Client Info Not Changed Changed Changed ABNORMAL COIT AMINATION method Imit/base current history1 history2 Fuel WC Method >2.1 <1.0 <1.0 <1.0 <1.0 Glycol WC Method >2.1 <1.0 <1.0 <1.0 <1.0 Iron ppm ASTM D5185m >51 319 &83 73 Iron ppm ASTM D5185m >51 \$19 &83 73 Iron ppm ASTM D5185m >51 \$21 \$1 \$2 0 Iron ppm ASTM D5185m >51 \$1 \$2<	40 (29 GAL)		Nov2018	Aug2019 Jun2020	Mar2021 Mar2022 M	lay2023	
Sample Date Client Info 27 Sep 2023 12 May 2023 14 Oct 2022 Machine Age hrs Client Info 5747 5476 4967 Oil Age hrs Client Info 0 500 4967 Oil Age Client Info Not Changed Changed Changed SEVERE ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method mimit/base current history1 history2 history2 Fuel WC Method NEG N	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 5747 5476 4967 Oil Age hrs Client Info 0 500 4967 Oil Changed Client Info Not Changd Changed Changed Sample Status Image: Control of Changed Manor Mal ABNORMAL ABNORMAL CONTAMINATION method Ilmit/base current history1 history2 Fuel WC Method 2-1 <1.0	Sample Number		Client Info		JR0184448	JR0172926	JR0132552
Oil Age hrs Client Info Not Changed 500 4967 Coll Changed Client Info Not Changed Changed Changed Sample Status SEVERE ABNORMAL ABNORMAL CONTAMINATION method limit/base current history2 Fuel WC Method >2.1 <1.0	Sample Date		Client Info		27 Sep 2023	12 May 2023	14 Oct 2022
Oil Changed Sample Status Client Info Not Changed SEVERE Changed ABNORMAL ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >2.1 <1.0	Machine Age	hrs	Client Info		5747	5476	4967
Sample Status SEVERE ABNORMAL ABNORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method >2.1 <1.0	Oil Age	hrs	Client Info		0	500	4967
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >2.1 <1.0 <1.0 <1.0 <1.0 Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >51 319 &83 73 Chromium ppm ASTM D5185m >51 2 1 2 Nickel ppm ASTM D5185m >5 1 2 0 0 Sliver ppm ASTM D5185m >31 14 7 5 1 2 0	Oil Changed		Client Info		Not Changd	Changed	Changed
Fuel	Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS	CONTAMINATION	٧	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >51 319 A 83 73 Chromium ppm ASTM D5185m >11 21 5 2 Nickel ppm ASTM D5185m >5 1 2 0 Titanium ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >31 14 4 7 5 Lead ppm ASTM D5185m >26 2 1 <1	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >11 21 5 2 Nickel ppm ASTM D5185m >5 1 2 0 Titanium ppm ASTM D5185m >3 0 0 0 Silver ppm ASTM D5185m >3 1 4 4 7 5 Lead ppm ASTM D5185m >26 2 1 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m >5 1 2 0 Titanium ppm ASTM D5185m 2 <1	Iron	ppm	ASTM D5185m	>51	319	8 3	▲ 73
Titanium ppm ASTM D5185m 2 <1 <1 Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >31 14 7 5 Lead ppm ASTM D5185m >26 2 1 <1	Chromium	ppm	ASTM D5185m	>11	1 21	5	2
Silver ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >31 14 7 5 Lead ppm ASTM D5185m >26 2 1 <1 Copper ppm ASTM D5185m >26 10 5 3 Tin ppm ASTM D5185m >4 2 <1 <1 Vanadium ppm ASTM D5185m <1 0 0 0 Cadmium ppm ASTM D5185m <1 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 226 189 154 Barium ppm ASTM D5185m 0 3 3 Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 772 832 795 Calcium	Nickel	ppm	ASTM D5185m	>5	1	2	0
Aluminum ppm ASTM D5185m >31 ▲ 14 ▲ 7 5 Lead ppm ASTM D5185m >26 2 1 <1	Titanium	ppm	ASTM D5185m		2	<1	<1
Lead ppm ASTM D5185m >26 2 1 <1 Copper ppm ASTM D5185m >26 10 5 3 Tin ppm ASTM D5185m >4 2 <1 <1 Vanadium ppm ASTM D5185m <1 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 226 189 154 Barium ppm ASTM D5185m 0 3 3 Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 772 832 795 Calcium ppm ASTM D5185m 1462 1498 1502 Phosphorus ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >26 10 5 3 Tin ppm ASTM D5185m >4 2 <1	Aluminum	ppm	ASTM D5185m	>31	<u> </u>	<u>^</u> 7	5
Tin ppm ASTM D5185m >4 2 <1 <1 Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 226 189 154 Barium ppm ASTM D5185m 0 3 3 Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 2 <1 <1 Magnesium ppm ASTM D5185m 772 832 795 Calcium ppm ASTM D5185m 1462 1498 1502 Phosphorus ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m >22 805 3305 CONTAMINANTS method limit/base current history1	Lead	ppm	ASTM D5185m	>26	2	1	<1
Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 226 189 154 Barium ppm ASTM D5185m 0 3 3 Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 2 <1 <1 Magnesium ppm ASTM D5185m 772 832 795 Calcium ppm ASTM D5185m 1462 1498 1502 Phosphorus ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80	Copper	ppm	ASTM D5185m	>26	10	5	3
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 226 189 154 Barium ppm ASTM D5185m 0 3 3 Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 2 <1	Tin	ppm	ASTM D5185m	>4	2	<1	<1
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 226 189 154 Barium ppm ASTM D5185m 0 3 3 Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 2 <1	Vanadium	ppm	ASTM D5185m		<1	0	0
Boron ppm ASTM D5185m 226 189 154 Barium ppm ASTM D5185m 0 3 3 Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 2 <1 <1 Magnesium ppm ASTM D5185m 772 832 795 Calcium ppm ASTM D5185m 1462 1498 1502 Phosphorus ppm ASTM D5185m 888 895 871 Zinc ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 3 3 Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 2 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 273 274 270 Manganese ppm ASTM D5185m 2 <1 <1 Magnesium ppm ASTM D5185m 772 832 795 Calcium ppm ASTM D5185m 1462 1498 1502 Phosphorus ppm ASTM D5185m 888 895 871 Zinc ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % </td <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>226</th> <td>189</td> <td>154</td>	Boron	ppm	ASTM D5185m		226	189	154
Manganese ppm ASTM D5185m 2 <1 <1 Magnesium ppm ASTM D5185m 772 832 795 Calcium ppm ASTM D5185m 1462 1498 1502 Phosphorus ppm ASTM D5185m 888 895 871 Zinc ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>3</td> <td>3</td>	Barium	ppm	ASTM D5185m		0	3	3
Magnesium ppm ASTM D5185m 772 832 795 Calcium ppm ASTM D5185m 1462 1498 1502 Phosphorus ppm ASTM D5185m 888 895 871 Zinc ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % "ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm "ASTM D7624 >20 8.2 9.1 10.1 Sul	Molybdenum	ppm	ASTM D5185m		273	274	270
Calcium ppm ASTM D5185m 1462 1498 1502 Phosphorus ppm ASTM D5185m 888 895 871 Zinc ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80 △ 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 <td< td=""><td>Manganese</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>2</th><td><1</td><td><1</td></td<>	Manganese	ppm	ASTM D5185m		2	<1	<1
Phosphorus ppm ASTM D5185m 888 895 871 Zinc ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/.1mm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current	Magnesium	ppm	ASTM D5185m		772	832	795
Zinc ppm ASTM D5185m 1095 1084 1077 Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/.1mm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414	Calcium	ppm	ASTM D5185m		1462	1498	1502
Sulfur ppm ASTM D5185m 3570 2805 3305 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	Phosphorus	ppm	ASTM D5185m		888	895	871
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 80 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	Zinc	ppm	ASTM D5185m		1095	1084	1077
Silicon ppm ASTM D5185m >22 80 △ 26 12 Sodium ppm ASTM D5185m >31 3 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	Sulfur	ppm	ASTM D5185m		3570	2805	3305
Sodium ppm ASTM D5185m >31 3 0 Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 5 4 6 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	Silicon	ppm	ASTM D5185m	>22	● 80	△ 26	12
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	Sodium	ppm	ASTM D5185m	>31	3	3	0
Soot % % *ASTM D7844 >3 0.4 0.4 0.5 Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	Potassium	ppm	ASTM D5185m	>20	5	4	6
Nitration Abs/cm *ASTM D7624 >20 8.2 9.1 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 21.5 22.8 24.0 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.5
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2OxidationAbs/.1mm*ASTM D7414>2515.816.817.9	Nitration	Abs/cm	*ASTM D7624	>20	8.2	9.1	10.1
Oxidation Abs/.1mm *ASTM D7414 >25 15.8 16.8 17.9	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	22.8	24.0
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 13.6 9.3 8.7 10.3	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.8	17.9
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.3	8.7	10.3



OIL ANALYSIS REPORT

