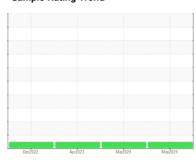


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **JOHN DEERE 118**

Diesel Engine

MOBIL 15W40 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

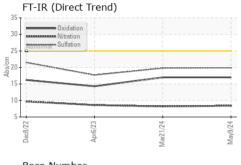
Fluid Condition

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

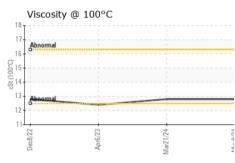
Sample Date			Dec202	2 Apr2023	Mar2024 M	ay2024	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 4654 4055 2359 Oil Age hrs Client Info 600 500 550 Oil Changed Client Info Changed	Sample Number		Client Info		JR0172401	JR0149332	JR0117813
Oil Age hrs Client Info 600 500 550 Oil Changed Changed	Sample Date		Client Info		09 May 2024	21 Mar 2024	06 Apr 2023
Client Info Changed Changed Changed NORMAL NORMAL NORMAL NORMAL	Machine Age	hrs	Client Info		4654	4055	2359
NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 history2	Oil Age	hrs	Client Info		600	500	550
CONTAMINATION	Oil Changed		Client Info		Changed	Changed	Changed
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water WC Method >0.21 NEG NEG NEG Glycol WC Method Imilibase current history1 history2 WEAR METALS method limil/base current history1 history2 Iron ppm ASTM D5185m >51 10 10 13 Chromium ppm ASTM D5185m >51 0 0 <1 Nickel ppm ASTM D5185m >5 0 0 <1 Silver ppm ASTM D5185m >5 0 0 0 Silver ppm ASTM D5185m >31 2 2 2 Lead ppm ASTM D5185m >26 0 0 0 Copper ppm ASTM D5185m >26 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	CONTAMINATION	١	method	limit/base	current	history1	history2
WEAR METALS	Fuel		WC Method	>2.1	<1.0	<1.0	1.5
WEAR METALS	Water		WC Method	>0.21	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >11 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>51	10	10	13
Titanium	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>5	0	0	<1
Aluminum ppm ASTM D5185m >31 2 2 2 Lead ppm ASTM D5185m >26 0 0 0 Copper ppm ASTM D5185m >26 <1 <1 3 Tin ppm ASTM D5185m >4 <1 <1 <1 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m 51 50 57 57 Manganese ppm ASTM D5185m 1358 1309 1322 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >26 <1	Aluminum	ppm	ASTM D5185m	>31	2	2	2
Tin	Lead	ppm	ASTM D5185m	>26	0	0	0
Vanadium ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 14 16 7 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 51 50 57 Manganese ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>26	<1	<1	3
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 14 16 7 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 51 50 57 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 805 779 911 Calcium ppm ASTM D5185m 1358 1309 1322 Phosphorus ppm ASTM D5185m 1052 996 1099 Zinc ppm ASTM D5185m 3695 3618 4488 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >20	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
ADDITIVES	Vanadium	ppm	ASTM D5185m		0	0	0
Boron	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 51 50 57 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m 805 779 911 Calcium ppm ASTM D5185m 1358 1309 13222 Phosphorus ppm ASTM D5185m 1052 996 1099 Zinc ppm ASTM D5185m 1244 1195 1341 Sulfur ppm ASTM D5185m 3695 3618 4488 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % "ASTM D7624 >20	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 51 50 57 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		14	16	7
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 805 779 911 Calcium ppm ASTM D5185m 1358 1309 1322 Phosphorus ppm ASTM D5185m 1052 996 1099 Zinc ppm ASTM D5185m 1244 1195 1341 Sulfur ppm ASTM D5185m 3695 3618 4488 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >118 3 2 3 Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7	Molybdenum	ppm	ASTM D5185m		51	50	57
Calcium ppm ASTM D5185m 1358 1309 1322 Phosphorus ppm ASTM D5185m 1052 996 1099 Zinc ppm ASTM D5185m 1244 1195 1341 Sulfur ppm ASTM D5185m 3695 3618 4488 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >118 3 2 3 Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 hi	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 1052 996 1099 Zinc ppm ASTM D5185m 1244 1195 1341 Sulfur ppm ASTM D5185m 3695 3618 4488 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >118 3 2 3 Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current histo	Magnesium	ppm	ASTM D5185m		805	779	911
Zinc ppm ASTM D5185m 1244 1195 1341 Sulfur ppm ASTM D5185m 3695 3618 4488 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >118 3 2 3 Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0<	Calcium	ppm	ASTM D5185m		1358	1309	1322
Sulfur ppm ASTM D5185m 3695 3618 4488 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >118 3 2 3 Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	Phosphorus	ppm	ASTM D5185m		1052	996	1099
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >118 3 2 3 Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	Zinc	ppm	ASTM D5185m		1244	1195	1341
Silicon ppm ASTM D5185m >22 3 3 3 Sodium ppm ASTM D5185m >118 3 2 3 Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	Sulfur	ppm	ASTM D5185m		3695	3618	4488
Sodium ppm ASTM D5185m >118 3 2 3 Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 3 1 3 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	Silicon	ppm	ASTM D5185m	>22	3	3	3
INFRA-RED	Sodium	ppm	ASTM D5185m	>118	3	2	3
Soot % % *ASTM D7844 >3 0.5 0.4 0.4 Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	Potassium	ppm	ASTM D5185m	>20	3	1	3
Nitration Abs/cm *ASTM D7624 >20 8.4 8.2 8.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 19.9 19.8 17.7 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.2	8.6
Oxidation Abs/.1mm *ASTM D7414 >25 17.0 17.0 14.3	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	19.8	17.7
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 9.2 9.3 7.5	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.0	14.3
	Base Number (BN)	mg KOH/g	ASTM D2896		9.2	9.3	7.5

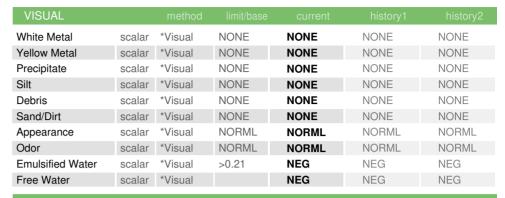


OIL ANALYSIS REPORT

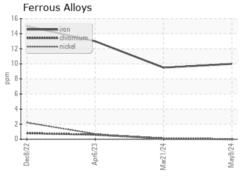


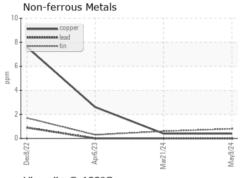
Base Num	ber		
10.0 (B) 8.0			
Abnormal Acceptance of the Acc			
4.0 Severe			
0.0 Dec8/22	Apr6/23 •	Mar21/24 •	ACCOM

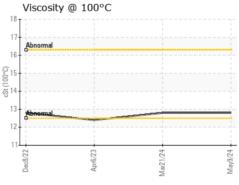


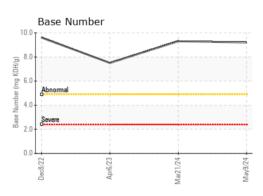


FLUID PROPERTIES		method		history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.8	12.8	12.4	













Certificate 12367

Laboratory Sample No.

Lab Number : 06196453

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0172401

Unique Number : 11058576 Test Package : CONST (Additional Tests: TBN)

Received **Tested** Diagnosed

: 31 May 2024 : 03 Jun 2024

: 03 Jun 2024 - Wes Davis

SCOTTS EARTH GROW

7601 GENERAL MAHONE HWY WAVERLY, VA

US 23890 Contact: JW jerald.tappiii@scotts.com

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.

T: (804)834-3986 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)834-3989 Contact/Location: JW - SCOWAV

Report Id: SCOWAV [WUSCAR] 06196453 (Generated: 06/04/2024 07:23:40) Rev: 1

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