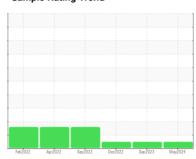


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

JOHN DEERE 117

Component
Transmission (Manual)

MOBIL MOBILGARD 424 (--- 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.

Fluid Condition

The condition of the fluid is suitable for further service.

SAMPLE INFORMATION								
Sample Date	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Machine Age hrs Client Info 7263 5833 3768 Oil Age hrs Client Info 1263 500 1758 Oil Changed Client Info Not Changed Not Changed Not Changed Not Changed Not Changed NoRMAL NORMAL </th <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>JR0172216</th> <th>JR0172459</th> <th>JR0117803</th>	Sample Number		Client Info		JR0172216	JR0172459	JR0117803	
Oil Age hrs Client Info 1263 500 1768 Oil Changed Client Info Not Changd Not Changd <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>17 May 2024</th> <th>22 Sep 2023</th> <th>07 Dec 2022</th>	Sample Date		Client Info		17 May 2024	22 Sep 2023	07 Dec 2022	
Oil Changed Sample Status Client Info Not Changd NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL NORMAL Not Changd NORMAL NoRMAL NoRMAL NoRMAL NoRMAL NoRMAL NoRMAL Ward Mark Mark ASTM D5185m 200 74 56 51 1 0	Machine Age	hrs	Client Info		7263	5833	3768	
Sample Status	Oil Age	hrs	Client Info		1263	500	1768	
Water	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8184 >95 22 19 11 Iron ppm ASTM D8185m >0 0 0 Chromitim ppm ASTM D5185m >5 <1	Sample Status				NORMAL	NORMAL	NORMAL	
WEAR METALS method limit/base current history1 history2 PQ ASTM D8184 >95 22 19 11 Iron ppm ASTM D8188m >200 74 56 51 Chromium ppm ASTM D8188m >5 <1 0 0 Nickel ppm ASTM D8188m >5 <1 0 0 Silver ppm ASTM D8188m >5 <1 0 0 Silver ppm ASTM D8188m >25 1 0 0 Aluminum ppm ASTM D8188m >25 1 0 <1 Lead ppm ASTM D8188m >25 1 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	CONTAMINATION	I	method	limit/base	current	history1	history2	
PQ	Water		WC Method	>0.1	NEG	NEG	NEG	
Iron	WEAR METALS		method	limit/base	current	history1	history2	
Chromium ppm ASTM D5185m >5 <1	PQ		ASTM D8184	>95	22	19	11	
Nickel	Iron	ppm	ASTM D5185m	>200	74	56	51	
Titanium	Chromium	ppm	ASTM D5185m	>5	<1	0	0	
Silver	Nickel	ppm	ASTM D5185m	>5	<1	0	0	
Aluminum	Titanium	ppm	ASTM D5185m		<1	0	0	
Lead	Silver	ppm	ASTM D5185m	>7	<1	0	0	
Copper ppm ASTM D5185m >225 29 29 36 Tin ppm ASTM D5185m >10 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Aluminum	ppm	ASTM D5185m	>25	1	0	<1	
Tin ppm ASTM D5185m >10 1 <1	Lead	ppm	ASTM D5185m	>45	<1	<1	<1	
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>225	29	29	36	
Cadmium ppm ASTM D5185m <1	Tin	ppm	ASTM D5185m	>10	1	<1	<1	
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 39 30 3 Barium ppm ASTM D5185m 3 0 0 Molybdenum ppm ASTM D5185m 3 2 <1 Manganese ppm ASTM D5185m 1 <1 1 Magnesium ppm ASTM D5185m 80 82 71 Calcium ppm ASTM D5185m 3183 3035 3046 Phosphorus ppm ASTM D5185m 1199 1013 986 Zinc ppm ASTM D5185m 1302 1255 1147 Sulfur ppm ASTM D5185m 5285 4381 4520 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >125 23 24 28 Sodium ppm ASTM D5185m >20<	Vanadium	ppm	ASTM D5185m		<1	0	0	
Boron	Cadmium	ppm	ASTM D5185m		<1	0	0	
Barium ppm ASTM D5185m 3 0 0 Molybdenum ppm ASTM D5185m 3 2 <1 Manganese ppm ASTM D5185m 1 <1 1 Magnesium ppm ASTM D5185m 80 82 71 Calcium ppm ASTM D5185m 3183 3035 3046 Phosphorus ppm ASTM D5185m 1199 1013 986 Zinc ppm ASTM D5185m 1302 1255 1147 Sulfur ppm ASTM D5185m 5285 4381 4520 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >125 23 24 28 Sodium ppm ASTM D5185m 17 20 26 Potassium ppm ASTM D5185m >20 3 0 2 VISUAL <td colsp<="" th=""><th>ADDITIVES</th><th></th><th>method</th><th>limit/base</th><th>current</th><th>history1</th><th>history2</th></td>	<th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 3 2 <1	Boron	ppm	ASTM D5185m		39	30	3	
Manganese ppm ASTM D5185m 1 <1	Barium	ppm	ASTM D5185m		3	0	0	
Magnesium ppm ASTM D5185m 80 82 71 Calcium ppm ASTM D5185m 3183 3035 3046 Phosphorus ppm ASTM D5185m 1199 1013 986 Zinc ppm ASTM D5185m 1302 1255 1147 Sulfur ppm ASTM D5185m 5285 4381 4520 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >125 23 24 28 Sodium ppm ASTM D5185m >17 20 26 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE <th>Molybdenum</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>3</th> <th>2</th> <th><1</th>	Molybdenum	ppm	ASTM D5185m		3	2	<1	
Calcium ppm ASTM D5185m 3183 3035 3046 Phosphorus ppm ASTM D5185m 1199 1013 986 Zinc ppm ASTM D5185m 1302 1255 1147 Sulfur ppm ASTM D5185m 5285 4381 4520 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >125 23 24 28 Sodium ppm ASTM D5185m >17 20 26 Potassium ppm ASTM D5185m >20 3 0 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Visual NONE NONE NONE NONE NONE NONE Visual NONE NONE NONE <th>Manganese</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>1</th> <th><1</th> <th>1</th>	Manganese	ppm	ASTM D5185m		1	<1	1	
Phosphorus ppm ASTM D5185m 1199 1013 986 Zinc ppm ASTM D5185m 1302 1255 1147 Sulfur ppm ASTM D5185m 5285 4381 4520 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >125 23 24 28 Sodium ppm ASTM D5185m >17 20 26 Potassium ppm ASTM D5185m >20 3 0 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE Silt sca	Magnesium	ppm	ASTM D5185m		80	82	71	
Zinc ppm ASTM D5185m 1302 1255 1147 Sulfur ppm ASTM D5185m 5285 4381 4520 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >125 23 24 28 Sodium ppm ASTM D5185m 17 20 26 Potassium ppm ASTM D5185m >20 3 0 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Sedrivisual *Visual	Calcium	ppm	ASTM D5185m		3183	3035	3046	
SulfurppmASTM D5185m528543814520CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>125232428SodiumppmASTM D5185m172026PotassiumppmASTM D5185m>20302VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLNORMLNORML	Phosphorus	ppm	ASTM D5185m		1199	1013	986	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >125 23 24 28 Sodium ppm ASTM D5185m 17 20 26 Potassium ppm ASTM D5185m >20 3 0 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NORML	Zinc	ppm	ASTM D5185m		1302	1255	1147	
Silicon ppm ASTM D5185m >125 23 24 28 Sodium ppm ASTM D5185m 17 20 26 Potassium ppm ASTM D5185m >20 3 0 2 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NORML NORML NORML NORML Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual	Sulfur	ppm	ASTM D5185m		5285	4381	4520	
SodiumppmASTM D5185m172026PotassiumppmASTM D5185m>20302VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	CONTAMINANTS		method	limit/base	current	history1	history2	
PotassiumppmASTM D5185m>20302VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Silicon	ppm	ASTM D5185m	>125	23	24	28	
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Sodium	ppm	ASTM D5185m		17	20	26	
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Potassium	ppm	ASTM D5185m	>20	3	0	2	
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	VISUAL		method	limit/base	current	history1	history2	
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE	
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG			

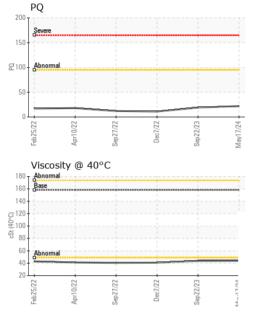
ontactAgcation: JW NS6OWAV

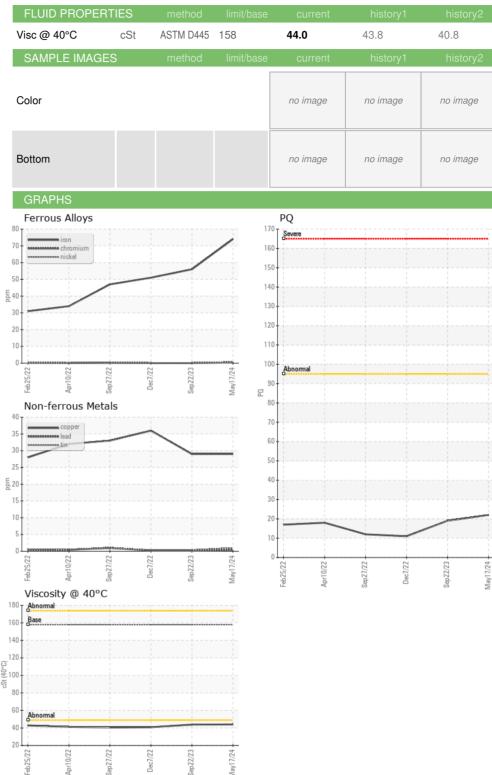
NEG

scalar *Visual



OIL ANALYSIS REPORT









Certificate 12367

Sample No. Lab Number : 06196894

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0172216

Unique Number : 11059017

Received **Tested**

: 31 May 2024 : 03 Jun 2024 Diagnosed : 03 Jun 2024 - Sean Felton

7601 GENERAL MAHONE HWY

WAVERLY, VA US 23890

Contact: JW jerald.tappiii@scotts.com

SCOTTS EARTH GROW

Test Package : CONST (Additional Tests: PQ) 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