

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

JOHN DEERE 748L 1DW748LAOKF694617

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

Contamination

There is no indication of any contamination in the oil.

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.

				Jan2024		
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WE0005298		
Sample Date		Client Info		12 Jan 2024		
Machine Age	hrs	Client Info		7520		
Oil Age	hrs	Client Info		7520		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0		
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	3		
Chromium	ppm	ASTM D5185m	>11	0		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	4		
Lead	ppm	ASTM D5185m	>26	<1		
Copper	ppm	ASTM D5185m	>26	<1		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		278		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		236		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		809		
Calcium	ppm	ASTM D5185m		1292		
Phosphorus	0.00.000					
	ppm	ASTM D5185m		972		
Zinc	ppm	ASTM D5185m ASTM D5185m		972 1110		
				-		
Zinc	ppm ppm	ASTM D5185m	limit/base	1110		
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	limit/base	1110 3165		
Zinc Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m method		1110 3165 current	 history1	 history2
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m	>22	1110 3165 current 9	 history1 	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>22 >31	1110 3165 current 9 <1	 history1 	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>22 >31 >20	1110 3165 current 9 <1 2	 history1 	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m method	>22 >31 >20 limit/base	1110 3165 current 9 <1 2 current	 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>22 >31 >20 limit/base >3	1110 3165 current 9 <1 2 current 0.1	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm v v v k kbs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	>22 >31 >20 limit/base >3 >20	1110 3165 current 9 <1 2 current 0.1 5.8	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm v v v k kbs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7824 *ASTM D7415	>22 >31 >20 limit/base >3 >20 >30	1110 3165 current 9 <1 2 current 0.1 5.8 20.4	 history1 history1 	 history2 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm % Abs/cm Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415	>22 >31 >20 limit/base >3 >20 >30 limit/base	1110 3165 current 9 <1 2 current 0.1 5.8 20.4 current	 history1 history1 history1 history1	 history2 history2 history2

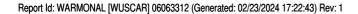


OIL ANALYSIS REPORT

Tractor and Equipment		
Base Number हुब्ब्ब	VISUAL	
	White Metal	SC
	Yellow Metal	SC
	Precipitate	SC
normal	Silt	SC
evere	Debris	SC
	Sand/Dirt	SC
	Appearance	SC
	Odor	SC
/iscosity @ 100°C	Emulsified Water	SC
	Free Water	SC
Abnormal	FLUID PROPER	
	Visc @ 100°C	cS
lase		00
	GRAPHS	
Abnormal	Ferrous Alloys	
* *	inn	
	8 - chromium	
~	-	
	E.	
	4	
	2	
	2	
	Jan 12/24	
	Non-ferrous Met	als
	copper	
	8 - excession lead	

*Visual NONE *Visual NONE NONE NONE *Visual NONE *Visual NONE NONE *Visual NONE NONE *Visual NONE NONE NORML NORML *Visual *Visual NORML NORML *Visual >0.21 NEG *Visual NEG ASTM D445 15.4 15.2 Jan 12/24 an12/7 an l Viscosity @ 100°C Base Number 19 14.0 Base 18 12.0 (B/HOJ Bu). 10.0 St (100°C) 8.0 mber 6.0 14 Base | 4.0 Abnorma 2.0 12 0.0 Jan12/24 -Jan 12/24 Jan12/24 2/24 E : WearCheck USA - 501 Madison Ave., Cary, NC 27513 WARRIOR TRACTOR AND EQUIPMENT - MONROEVILLE Laboratory Sample No. : WE0005298 Received 66 INDUSTRIAL PARK DR : 17 Jan 2024 Lab Number : 06063312 Tested : 18 Jan 2024 MONROEVILLE, AL Unique Number : 10834694 Diagnosed : 18 Jan 2024 - Wes Davis US 36460 Test Package : CONST (Additional Tests: TBN) Contact: SCOTT WILLIAMSON To discuss this sample report, contact Customer Service at 1-800-237-1369. swilliamson@warriortractor.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (251)575-7111 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

NONE



Certificate L2367

Contact/Location: SCOTT WILLIAMSON - WARMONAL