

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



JOHN DEERE 843L 1DW843LBKMF710970

Component **Diesel Engine**

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

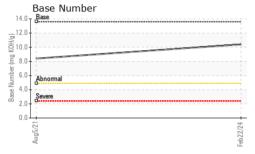
Fluid Condition

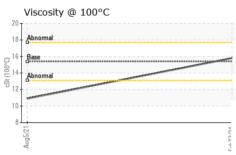
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION							
Sample Number Client Info WE0006265 WE0000295	10 (QTS)			Aug2021	Feb2024		
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		WE0006265	WE0000295	
Dit Age	Sample Date		Client Info		22 Feb 2024	05 Aug 2021	
Dil Changed Client Info N/A Changed Changed Contraktivation Contrakti	Machine Age	hrs	Client Info		5817	539	
Discription Control	•	hrs	Client Info		0	539	
CONTAMINATION method limit/base current history1 histo	-		Client Info		N/A	Changed	
Valer					NORMAL	Ü	
Water WC Method >0.21 NEG NEG Glycol WC Method Imit/base current history1 history1 WEAR METALS method limit/base current history1 history1 ron ppm ASTM D5185m >51 1 49 chromium ppm ASTM D5185m >55 <1	CONTAMINATION	V	method	limit/base	current	history1	history2
WEAR METALS	uel		WC Method	>2.1	<1.0	<1.0	
WEAR METALS	Vater		WC Method	>0.21	NEG	NEG	
WEAR METALS method limit/base current history1 history1 fron ppm ASTM D5185m >51 1 49					NEG		
Coron ppm ASTM D5185m >51 1 49			method	limit/base	current	historv1	historv2
Description		nnm					
ASTM D5185m Society	_						
Silver					-		
Silver							
ASTM D5185m ASTM D5185m D6185m D7185m				~3	_		
December December							
Description					-		
Sin							
ASTM D5185m CONTAMINANTS CONTA							
Anadium ppm ASTM D5185m c c				>4			
ADDITIVES	•						
ADDITIVES method limit/base current history1 history2 Foron ppm ASTM D5185m 267 117							
Soron ppm ASTM D5185m 267 117 Sarium ppm ASTM D5185m 0 2 Molybdenum ppm ASTM D5185m 233 273 Manganese ppm ASTM D5185m <1 10 Magnesium ppm ASTM D5185m 771 842 Salcium ppm ASTM D5185m 1215 1589 Calcium ppm ASTM D5185m 845 887 Chosphorus ppm ASTM D5185m 987 1046 Sulfur ppm ASTM D5185m 2840 2337 CONTAMINANTS method limit/base current history1 history2 Soldium ppm ASTM D5185m >22 9 15 Cotassium ppm ASTM D5185m >20 2 37 INFRA-RED method limit/base current history1 history2 Soldium Abs/cm *ASTM D7844 >3 0 0.7 Sulfration Abs/cm *ASTM D7845 >20 5.6 10.1 Sulfation Abs/cm *ASTM D7415 >30 20.0 23.6 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/cm *ASTM D7414 >25 14.6 18.3		ppm			U		
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 233 273 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m				
Manganese ppm ASTM D5185m <1 10 Magnesium ppm ASTM D5185m 771 842 Calcium ppm ASTM D5185m 1215 1589 Phosphorus ppm ASTM D5185m 845 887 Valifur ppm ASTM D5185m 987 1046 Sulfur ppm ASTM D5185m 2840 2337 CONTAMINANTS method limit/base current history1 history2 Solicon ppm ASTM D5185m >22 9 15 Sodium ppm ASTM D5185m >31 1 4 Potassium ppm ASTM D5185m >20 2 37 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0 0.7 Sulfation Abs/:1mm	Barium	ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m 771 842 Calcium ppm ASTM D5185m 1215 1589 Phosphorus ppm ASTM D5185m 845 887 Zinc ppm ASTM D5185m 987 1046 Sulfur ppm ASTM D5185m 2840 2337 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >22 9 15 Sodium ppm ASTM D5185m >31 1 4 Potassium ppm ASTM D5185m >20 2 37 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0 0.7 Goto % % *ASTM D7624 >20 5.6 10.1 Goto %	Nolybdenum	ppm	ASTM D5185m		233	273	
Calcium ppm ASTM D5185m 1215 1589 Phosphorus ppm ASTM D5185m 845 887 Cinc ppm ASTM D5185m 987 1046 Sulfur ppm ASTM D5185m 2840 2337 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185m >22 9 15 Sodium ppm ASTM D5185m >31 1 4 Potassium ppm ASTM D5185m >20 2 37 INFRA-RED method limit/base current history1 history2 Soot % *ASTM D7844 >3 0 0.7 Goto % *ASTM D7624 >20 5.6 10.1 Gulfation Abs/.1mm *ASTM D7415 >30 20.0 23.6 FLUID DEGRADATIO	Manganese	ppm	ASTM D5185m		<1	10	
Phosphorus	Magnesium	ppm	ASTM D5185m		771	842	
Solitor ppm ASTM D5185m 987 1046	Calcium	ppm	ASTM D5185m		1215	1589	
Sulfur ppm ASTM D5185m 2840 2337 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 9 15 Sodium ppm ASTM D5185m >31 1 4 Potassium ppm ASTM D5185m >20 2 37 INFRA-RED method limit/base current history1 history2 Boot % *ASTM D7844 >3 0 0.7 Sulfation Abs/cm *ASTM D7624 >20 5.6 10.1 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.6 18.3	Phosphorus	ppm	ASTM D5185m		845	887	
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 9 15 Sodium ppm ASTM D5185m >31 1 4 Potassium ppm ASTM D5185m >20 2 37 INFRA-RED method limit/base current history1 history1 Soot % *ASTM D7844 >3 0 0.7 Silitration Abs/cm *ASTM D7624 >20 5.6 10.1 Gulfation Abs/.1mm *ASTM D7415 >30 20.0 23.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.6 18.3	linc	ppm	ASTM D5185m		987	1046	
Solicon ppm ASTM D5185m >22 9 15	Sulfur		ASTM D5185m		2840	2337	
Bodium ppm ASTM D5185m >31 1 4 Potassium ppm ASTM D5185m >20 2 37 INFRA-RED method limit/base current history1 history2 Goot % *ASTM D7844 >3 0 0.7 Ultration Abs/cm *ASTM D7624 >20 5.6 10.1 Gulfation Abs/.1mm *ASTM D7415 >30 20.0 23.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.6 18.3	CONTAMINANTS	;	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 37 INFRA-RED method limit/base current history1 history2 Boot % *ASTM D7844 >3 0 0.7 Bultration Abs/cm *ASTM D7624 >20 5.6 10.1 Bulfation Abs/.1mm *ASTM D7415 >30 20.0 23.6 FLUID DEGRADATION method limit/base current history1 history2 Dxidation Abs/.1mm *ASTM D7414 >25 14.6 18.3	Silicon	ppm	ASTM D5185m	>22	9	15	
INFRA-RED	Sodium	ppm	ASTM D5185m	>31	1	4	
Soot % *ASTM D7844 >3 0 0.7 ditration Abs/cm *ASTM D7624 >20 5.6 10.1 Sulfation Abs/.1mm *ASTM D7415 >30 20.0 23.6 FLUID DEGRADATION method limit/base current history1 history1 Oxidation Abs/.1mm *ASTM D7414 >25 14.6 18.3	otassium	ppm	ASTM D5185m	>20	2	37	
Abs/cm *ASTM D7624 >20 5.6 10.1	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 20.0 23.6 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.6 18.3	Soot %	%	*ASTM D7844	>3	0	0.7	
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.6 18.3	litration	Abs/cm	*ASTM D7624	>20	5.6	10.1	
Oxidation Abs/.1mm *ASTM D7414 >25 14.6 18.3	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	23.6	
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 13.6 10.4 8.4	Dxidation	Abs/.1mm	*ASTM D7414	>25	14.6	18.3	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.4	8.4	



OIL ANALYSIS REPORT

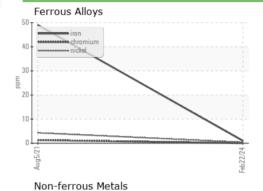


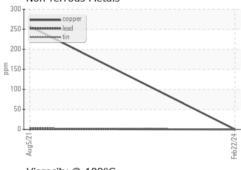


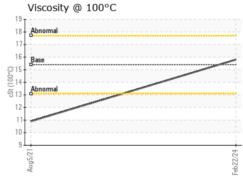
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

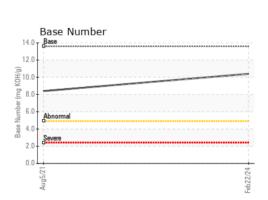
FLUID PROPER	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.8	10.9	

GRAPHS











Laboratory Sample No. Lab Number : 06098077

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

: WE0006265

Tested Unique Number: 10896307

Received : 23 Feb 2024 Diagnosed

: 25 Feb 2024 : 25 Feb 2024 - Wes Davis

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412

NORTHPORT, AL US 35476 Contact: SCOTT GOOD

T: (205)339-0300

sgood@warriortractor.com

Test Package : CONST (Additional Tests: TBN) 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.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: WARNOR [WUSCAR] 06098077 (Generated: 03/05/2024 10:54:32) Rev: 1

Contact/Location: SCOTT GOOD - WARNOR