

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



JOHN DEERE E-CAB OT-70 (S/N 22325)

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Diesel Engine

DIAGNOSIS

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

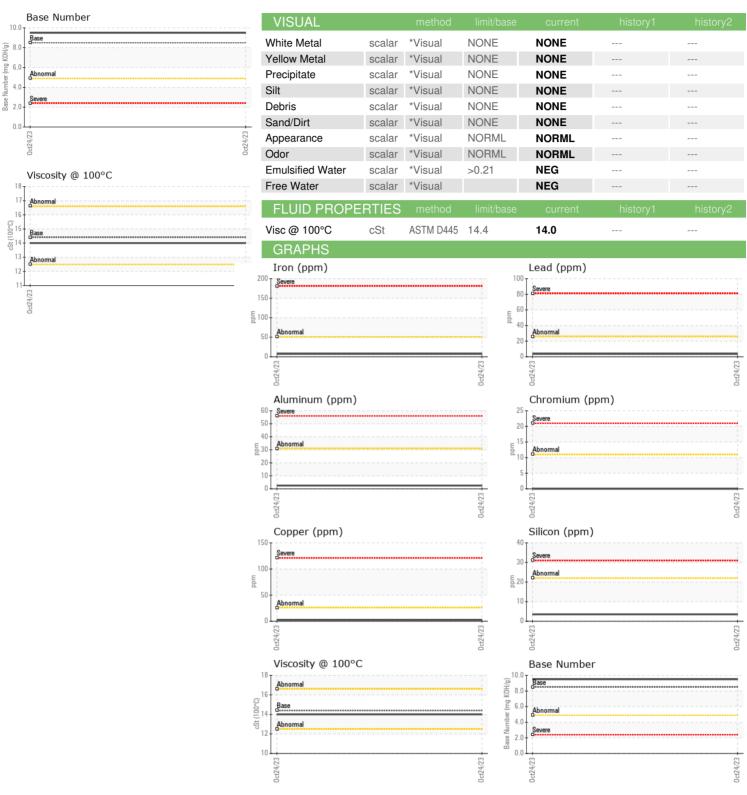
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION method limit/base current history1 history2							
Sample Number Client Info PCA0107043			μ		Oct2023		
Sample Date Client Info 24 Oct 2023	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 6952 Oil Age hrs Client Info 250 Sample Status NORMAL CONTAMINATION method limit/base current history1 history2 Fuel WC Method NEG WEAR METALS method limil/base current history1 history2 Iron ppm ASTM D5185m >51 7 Nickel ppm ASTM D5185m >51 7 Nickel ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >31 2 Lead ppm ASTM D5185m >26 2 Capper ppm ASTM D5185m >26 2 Vanadium	Sample Number		Client Info		PCA0107043		
Oil Age hrs Client Info 250	Sample Date		Client Info		24 Oct 2023		
Oil Changed Sample Status Client Info Changed NORMAL	Machine Age	hrs	Client Info		6952		
CONTAMINATION	Oil Age	hrs	Client Info		250		
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >2.1 <1.0 Glycol WC Method NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >51 7 Chromium ppm ASTM D5185m >51 0 Nickel ppm ASTM D5185m >5 0 Sliver ppm ASTM D5185m >31 2 Sliver ppm ASTM D5185m >26 4 Sliver ppm ASTM D5185m >26 4 Sliver ppm ASTM D5185m >26 4 Copper ppm ASTM D5185m >4 0	Oil Changed		Client Info				
Fuel WC Method Security Method NEG Security Mistory Mistory	Sample Status				NORMAL		
WEAR METALS	CONTAMINAT	ION	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >51 7 Chromium ppm ASTM D5185m >51 0 Nickel ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >3 0 Lead ppm ASTM D5185m >26 4 Lead ppm ASTM D5185m >26 2 Copper ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Boron ppm ASTM D5185m 10 0	Fuel		WC Method	>2.1	<1.0		
Iron	Glycol		WC Method		NEG		
Chromium ppm ASTM D5185m >11 0 Nickel ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >3 1 2 Aluminum ppm ASTM D5185m >3 1 2 Lead ppm ASTM D5185m >26 4 Copper ppm ASTM D5185m >4 0 Tin ppm ASTM D5185m >4 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>51	7		
Titanium	Chromium		ASTM D5185m	>11	0		
Titanium ppm ASTM D5185m 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >31 2 Lead ppm ASTM D5185m >26 2 Copper ppm ASTM D5185m >26 2 Tin ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 10 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 10 0	Nickel		ASTM D5185m	>5	0		
Aluminum	Titanium		ASTM D5185m		0		
Lead	Silver	ppm	ASTM D5185m	>3	0		
Copper ppm ASTM D5185m >26 2 Tin ppm ASTM D5185m >4 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 10 0 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 53 Magnesium ppm ASTM D5185m 100 Calcium ppm ASTM D5185m 450 946 Phosphorus ppm ASTM D5185m 1150 959 Sulfur ppm ASTM D5185m 4250 2989 <td>Aluminum</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>31</td> <th>2</th> <td></td> <td></td>	Aluminum	ppm	ASTM D5185m	>31	2		
Tin ppm ASTM D5185m >4 0 Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 3 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 53 Magnese ppm ASTM D5185m 100 53 Magnesium ppm ASTM D5185m 450 946 Calcium ppm ASTM D5185m 1150 959 Phosphorus ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m >22 4 <	Lead	ppm	ASTM D5185m	>26	4		
Vanadium ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 3 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 53 Magnesium ppm ASTM D5185m 100 53 Magnesium ppm ASTM D5185m 100 53 Magnesium ppm ASTM D5185m 450 946 Calcium ppm ASTM D5185m 3000 1178 Phosphorus ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m 220 4	Copper	ppm	ASTM D5185m	>26	2		
Cadmium ppm ASTM D5185m 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 3 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 53 Manganese ppm ASTM D5185m 100 53 Magnesium ppm ASTM D5185m 450 946 Magnesium ppm ASTM D5185m 3000 1178 Phosphorus ppm ASTM D5185m 1350 1298 Zinc ppm ASTM D5185m 4250 2989 Sulfur ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >22	Tin	ppm	ASTM D5185m	>4	0		
ADDITIVES	Vanadium	ppm	ASTM D5185m		0		
Boron ppm ASTM D5185m 250 3	Cadmium	ppm	ASTM D5185m		0		
Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 53 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 450 946 Calcium ppm ASTM D5185m 3000 1178 Phosphorus ppm ASTM D5185m 1150 959 Zinc ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m 4250 2989 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1 Potassium ppm ASTM D5185m	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 100 53 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 450 946 Calcium ppm ASTM D5185m 3000 1178 Phosphorus ppm ASTM D5185m 1150 959 Zinc ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m 4250 2989 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Boron	ppm	ASTM D5185m	250	3		
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 450 946 Calcium ppm ASTM D5185m 3000 1178 Phosphorus ppm ASTM D5185m 1150 959 Zinc ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m 4250 2989 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Barium	ppm	ASTM D5185m	10	0		
Magnesium ppm ASTM D5185m 450 946 Calcium ppm ASTM D5185m 3000 1178 Phosphorus ppm ASTM D5185m 1150 959 Zinc ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m 4250 2989 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Molybdenum	ppm	ASTM D5185m	100	53		
Calcium ppm ASTM D5185m 3000 1178 Phosphorus ppm ASTM D5185m 1150 959 Zinc ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m 4250 2989 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Manganese	ppm	ASTM D5185m		0		
Phosphorus ppm ASTM D5185m 1150 959 Zinc ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m 4250 2989 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Magnesium	ppm	ASTM D5185m	450	946		
Zinc ppm ASTM D5185m 1350 1298 Sulfur ppm ASTM D5185m 4250 2989 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Calcium	ppm	ASTM D5185m	3000	1178		
Sulfur ppm ASTM D5185m 4250 2989 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Phosphorus	ppm	ASTM D5185m	1150	959		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Zinc	ppm	ASTM D5185m	1350	1298		
Silicon ppm ASTM D5185m >22 4 Sodium ppm ASTM D5185m >158 <1	Sulfur	ppm	ASTM D5185m	4250	2989		
Sodium ppm ASTM D5185m >158 <1	CONTAMINAN	ITS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 4 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 6.1 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.3	Silicon	ppm	ASTM D5185m	>22	4		
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 6.1 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.3	Sodium	ppm	ASTM D5185m	>158	<1		
Soot % % *ASTM D7844 >3 0.1 Nitration Abs/cm *ASTM D7624 >20 6.1 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.3	Potassium	ppm	ASTM D5185m	>20	4		
Nitration Abs/cm *ASTM D7624 >20 6.1 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.3	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.3	Soot %	%	*ASTM D7844	>3	0.1		
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.3	Nitration	Abs/cm	*ASTM D7624	>20	6.1		
Oxidation	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2		
	FLUID DEGRA	OATION	method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3		
	Base Number (BN)	mg KOH/g		8.5	9.50		

Contact/Location: SPENCER COOPER - TRIFIR



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number Unique Number

: 05996864 : 10725224 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0107043 Received : 02 Nov 2023 Diagnosed : 03 Nov 2023

: Wes Davis Diagnostician

TRINITAS FARMING 45499 W PANOCHE RD FIREBAUGH, CA US 93622

Contact: SPENCER COOPER spencer.cooper@trinitasfarming.com T: (209)493-2999

Contact/Location: SPENCER COOPER - TRIFIR

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

F: