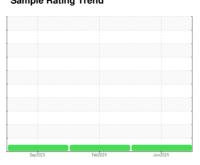


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **JOHN DEERE 243**

Diesel Engine

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

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

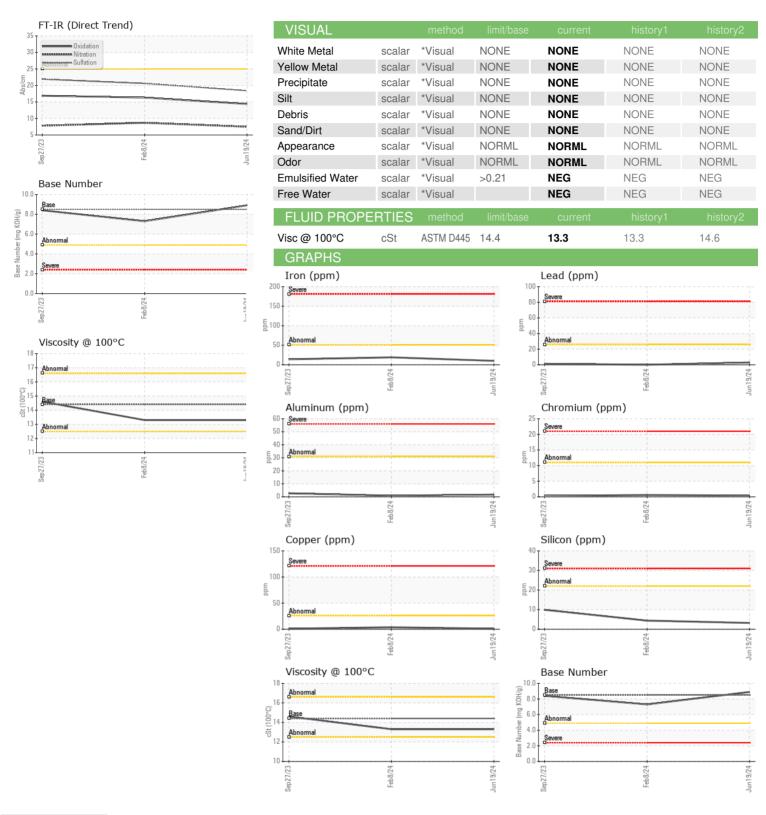
Fluid Condition

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 Imitibase current history1 PCA0105095 Sample Number Client Info PCA0127652 PCA0107160 PCA0105095 Sample Date Client Info 19 Jun 2024 08 Feb 2024 27 Sep 2023 A463 2779 2454 Client Info 500 325 625 625 Clind Changed hirs Client Info 500 325 625 625 Clind Changed Client Info Changed Changed			Sep	2023	Feb 2024 Jun 20.	24	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 4463 2779 2454 Machine Age hrs Client Info 500 325 625 Oil Age hrs Client Info 500 325 625 Oil Changed Client Info Changed Changed Changed Changed Sample Status method Imitibase current NCRMAL NORMAL NORMAL CONTAMINATION method Imitibase current history1 fill page Fuel WC Method >2.2.1 <1.0 <1.0 <1.0 <1.0 Water WC Method >2.2.1 NEG NEG NEG NEG Rico WC Method >2.1 NEG NEG NEG NEG NEG NE	Sample Number		Client Info		PCA0127652	PCA0107160	PCA0105095
Machine Age hrs Client Info 500 325 625 Oil Age hrs Client Info 500 325 625 Oil Changed Client Info Changed			Client Info		19 Jun 2024	08 Feb 2024	27 Sep 2023
Oil Changed Sample Status Client Info Changed NORMAL NORMAL NORMAL NORMAL Changed NORMAL NORMAL Changed NORMAL NORMAL NORMAL NORMAL NORMAL NO	·	hrs	Client Info		4463	2779	2454
Sample Status	Oil Age	hrs	Client Info		500	325	625
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >2.1 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.21 NEG NEG NEG NEG Glycol WC Method Imitivbase current history1 history2 Iron ppm ASTM D5185m >51 10 19 14 Chromitim ppm ASTM D5185m >51 10 19 14 Chromitim ppm ASTM D5185m >51 1 0 1 Nickel ppm ASTM D5185m >5 <1 3 2 Silver ppm ASTM D5185m >31 2 <1 3 2 Silver ppm ASTM D5185m >31 2 <1 3 2 Lead ppm ASTM D5185m >26 3 0 1 1 Vapacidium ppm AS	Oil Changed		Client Info		Changed	Changed	Changed
Fuel	Sample Status				NORMAL	NORMAL	NORMAL
Water Glycol WC Method >0.21 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >51 10 19 14 Chromium ppm ASTM D5185m >51 10 19 14 Sliver ppm ASTM D5185m >5 <1	CONTAMINAT	ION	method	limit/base	current	history1	history2
Second WC Method NEG NEG NEG	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >51 10 19 14 Chromium ppm ASTM D5185m >11 <1 <1 <1 Nickel ppm ASTM D5185m >5 <1 3 2 Titanium ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >3 0 0 0 Aluminum ppm ASTM D5185m >31 2 <1 3 Lead ppm ASTM D5185m >31 2 <1 3 Lead ppm ASTM D5185m >26 1 4 1 Tin ppm ASTM D5185m >4 <1 <1 <1 Vanadium ppm ASTM D5185m <1 0 <1 <1 Cadmium ppm ASTM D5185m 250 2 5	Water		WC Method	>0.21	NEG	NEG	NEG
Iron	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >11 <1	WEAR METAL	S	method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>51	10	19	14
Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Silver	Nickel	ppm	ASTM D5185m	>5	<1	3	2
Aluminum	Titanium	ppm	ASTM D5185m		<1	0	0
Lead ppm ASTM D5185m >26 3 0 1 Copper ppm ASTM D5185m >26 1 4 1 Tin ppm ASTM D5185m >4 <1	Silver	ppm	ASTM D5185m	>3	0	0	0
Copper ppm ASTM D5185m >26 1 4 1 Tin ppm ASTM D5185m >4 <1 <1 <1 Vanadium ppm ASTM D5185m <1 0 <1 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 2 5 83 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 65 65 190 Manganese ppm ASTM D5185m 100 65 65 190 Magnesium ppm ASTM D5185m 450 1029 929 975 Calcium ppm ASTM D5185m 450 1029 929 975 Calcium ppm ASTM D5185m 1150 1115 984 108	Aluminum	ppm	ASTM D5185m	>31	2	<1	3
Tin ppm ASTM D5185m >4 <1	Lead	ppm	ASTM D5185m	>26	3	0	1
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>26	1	4	1
Cadmium ppm ASTM D5185m <1	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Radio	Vanadium	ppm	ASTM D5185m		<1	0	<1
Boron ppm ASTM D5185m 250 2 5 83 Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 65 65 190 Manganese ppm ASTM D5185m 450 1029 929 975 Calcium ppm ASTM D5185m 3000 1192 1056 1371 Phosphorus ppm ASTM D5185m 1150 1115 984 1087 Zinc ppm ASTM D5185m 1350 1397 1225 1313 Sulfur ppm ASTM D5185m 4250 3855 2568 3346 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >20 4 1 <1	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium ppm ASTM D5185m 10 0 0 0 Molybdenum ppm ASTM D5185m 100 65 65 190 Manganese ppm ASTM D5185m 100 1029 929 975 Calcium ppm ASTM D5185m 3000 1192 1056 1371 Phosphorus ppm ASTM D5185m 1150 1115 984 1087 Zinc ppm ASTM D5185m 1350 1397 1225 1313 Sulfur ppm ASTM D5185m 4250 3855 2568 3346 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >20 4 1 <1 Potassium ppm ASTM D5185m >20 4 1 <1 INFRA-RED method limit/	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 100 65 65 190 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m	250	2	5	83
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m	10	0	0	0
Magnesium ppm ASTM D5185m 450 1029 929 975 Calcium ppm ASTM D5185m 3000 1192 1056 1371 Phosphorus ppm ASTM D5185m 1150 1115 984 1087 Zinc ppm ASTM D5185m 1350 1397 1225 1313 Sulfur ppm ASTM D5185m 4250 3855 2568 3346 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >158 2 13 <1 Potassium ppm ASTM D5185m >20 4 1 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 0.8 0.4 Nitration Abs/cm *AST	Molybdenum	ppm	ASTM D5185m	100			190
Calcium ppm ASTM D5185m 3000 1192 1056 1371 Phosphorus ppm ASTM D5185m 1150 1115 984 1087 Zinc ppm ASTM D5185m 1350 1397 1225 1313 Sulfur ppm ASTM D5185m 4250 3855 2568 3346 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >158 2 13 <1 Potassium ppm ASTM D5185m >20 4 1 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.5 8.7 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 1150 1115 984 1087 Zinc ppm ASTM D5185m 1350 1397 1225 1313 Sulfur ppm ASTM D5185m 4250 3855 2568 3346 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >158 2 13 <1 Potassium ppm ASTM D5185m >20 4 1 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 7.5 8.7 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1m	-	ppm	ASTM D5185m	450	1029		
Zinc ppm ASTM D5185m 1350 1397 1225 1313 Sulfur ppm ASTM D5185m 4250 3855 2568 3346 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >158 2 13 <1 Potassium ppm ASTM D5185m >20 4 1 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 0.8 0.4 Nitration Abs/.mm *ASTM D7624 >20 7.5 8.7 7.8 Sulfation Abs/.mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm<	Calcium	ppm	ASTM D5185m	3000	-	1056	1371
Sulfur ppm ASTM D5185m 4250 3855 2568 3346 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >158 2 13 <1 Potassium ppm ASTM D5185m >20 4 1 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 0.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.5 8.7 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 16.3 16.9		ppm	ASTM D5185m	1150	1115		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >158 2 13 <1 Potassium ppm ASTM D5185m >20 4 1 <1 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 0.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.5 8.7 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 16.3 16.9	Zinc	ppm	ASTM D5185m	1350	1397	1225	1313
Silicon ppm ASTM D5185m >22 3 4 10 Sodium ppm ASTM D5185m >158 2 13 <1			ASTM D5185m	4250	3855	2568	3346
Sodium ppm ASTM D5185m >158 2 13 <1	CONTAMINAN	TS	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 4 1 <1					3		
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 0.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.5 8.7 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 16.3 16.9		ppm	ASTM D5185m	>158			
Soot % % *ASTM D7844 >3 0.3 0.8 0.4 Nitration Abs/cm *ASTM D7624 >20 7.5 8.7 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 16.3 16.9	Potassium	ppm	ASTM D5185m	>20	4	1	<1
Nitration Abs/cm *ASTM D7624 >20 7.5 8.7 7.8 Sulfation Abs/.1mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 16.3 16.9	INFRA-RED		method	limit/base	current	history1	history2
Sulfation Abs/.1mm *ASTM D7415 >30 18.4 20.6 21.9 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 16.3 16.9	Soot %	%	*ASTM D7844	>3	0.3		0.4
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 14.4 16.3 16.9	Nitration	Abs/cm	*ASTM D7624	>20	7.5	8.7	7.8
Oxidation Abs/.1mm *ASTM D7414 >25 14.4 16.3 16.9	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	20.6	21.9
	FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Base Number (BN) mg KOH/g ASTM D2896 8.5 8.9 7.3 8.4	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	16.3	16.9
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.9	7.3	8.4



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06219027

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0127652

Unique Number : 11097224

Received **Tested** Diagnosed

: 24 Jun 2024 : 25 Jun 2024

: 25 Jun 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

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

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