

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MCI MOTOR COACH 1914

Component

1 Diesel Engine

{not provided} (20 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

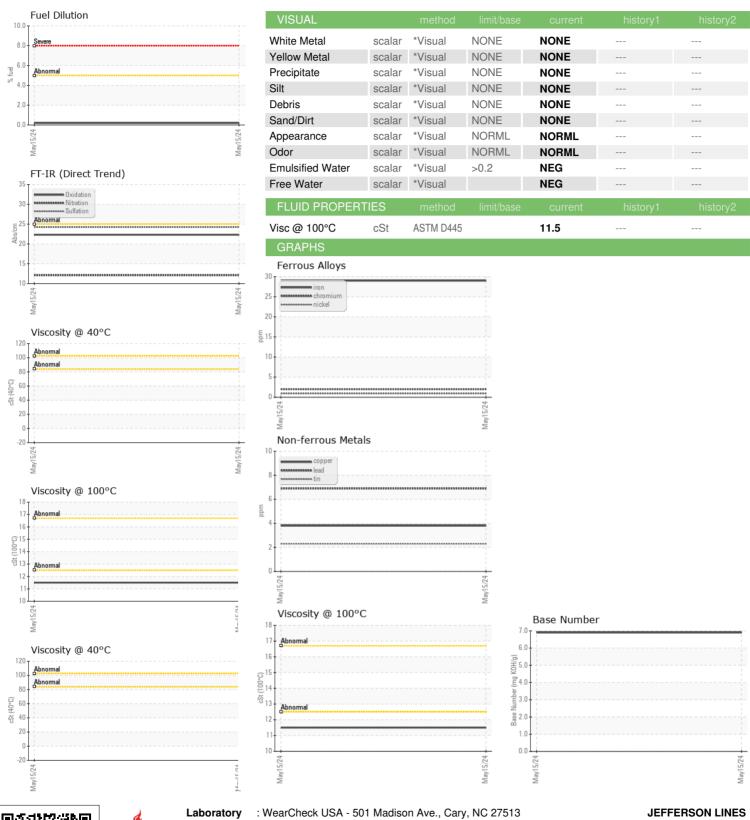
Fluid Condition

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

Chromium					May2024		
Sample Number Client Info WC0859179							
Sample Date	SAMPLE INFORM	MATION	method				history2
Sample Date Client Info 15 May 2024	Sample Number		Client Info		WC0859179		
Machine Age hrs Client Info 0 Coll Age hrs Client Info 0			Client Info		15 May 2024		
Oil Age hrs Client Info N/A	•	hrs	Client Info		-		
Coli Changed Cilient Info N/A							
CONTAMINATION	•				-		
Water WC Method MEG WC Method NEG WC							
WEAR METALS	CONTAMINATIO	N	method	limit/base	current	history1	history2
WEAR METALS	Water		WC Method	>0.2	NEG		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >10 0 29 Chromium ppm ASTM D5185m >20 2 Nickel ppm ASTM D5185m >4 <1				70.2			
Iron	•						
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>100	29		
STIVEN STIM D5185m STIM	Chromium	ppm	ASTM D5185m	>20	2		
Silver	Nickel	ppm	ASTM D5185m	>4	<1		
Aluminum	Titanium	ppm	ASTM D5185m		<1		
Aluminum	Silver		ASTM D5185m	>3	<1		
Lead	Aluminum		ASTM D5185m	>20	6		
Copper ppm ASTM D5185m >330 4 Tin ppm ASTM D5185m >15 2 Vanadium ppm ASTM D5185m <1	Lead	ppm	ASTM D5185m	>40	7		
Tin	Copper		ASTM D5185m	>330	4		
Vanadium ppm ASTM D5185m <1 Cadmium ppm ASTM D5185m <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 10 Barium ppm ASTM D5185m 70 Molybdenum ppm ASTM D5185m 70 Manganese ppm ASTM D5185m 1011 Manganesium ppm ASTM D5185m 1379 Calcium ppm ASTM D5185m 1379 Phosphorus ppm ASTM D5185m 1389 Zinc ppm ASTM D5185m 3709 Sulfur ppm ASTM D5185m >25 18 CONTAMINANTS method limit/base current	Tin		ASTM D5185m	>15	2		
Cadmium ppm ASTM D5185m <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 10 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 70 Manganese ppm ASTM D5185m 1011 Magnesium ppm ASTM D5185m 1379 Calcium ppm ASTM D5185m 1217 Phosphorus ppm ASTM D5185m 1389 Sulfur ppm ASTM D5185m 3709 CONTAMINANTS method limit/base current history1 history2 Solium ppm ASTM D5185m 21 Potassium ppm ASTM D5185m 11 <td< td=""><td>Vanadium</td><td></td><td>ASTM D5185m</td><td></td><td><1</td><td></td><td></td></td<>	Vanadium		ASTM D5185m		<1		
Boron	Cadmium		ASTM D5185m		<1		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 70 Manganese ppm ASTM D5185m 1011 Magnesium ppm ASTM D5185m 1379 Calcium ppm ASTM D5185m 1217 Phosphorus ppm ASTM D5185m 1389 Zinc ppm ASTM D5185m 3709 Sulfur ppm ASTM D5185m 3709 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 18 Sodium ppm ASTM D5185m >25 11 Fuel % ASTM D5185m >20 11 Fuel % ASTM D5185m <td>Boron</td> <td>maa</td> <td>ASTM D5185m</td> <td></td> <td>10</td> <td></td> <td></td>	Boron	maa	ASTM D5185m		10		
Molybdenum ppm ASTM D5185m 70 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 1011 Calcium ppm ASTM D5185m 1379 Phosphorus ppm ASTM D5185m 1217 Zinc ppm ASTM D5185m 1389 Sulfur ppm ASTM D5185m 3709 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 18 Sodium ppm ASTM D5185m 11 Fuel % ASTM D5185m 220 11 Fuel % ASTM D5185m >20 11 Fuel % ASTM D5185m	Barium		ASTM D5185m		0		
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 1011 Calcium ppm ASTM D5185m 1379 Phosphorus ppm ASTM D5185m 1217 Zinc ppm ASTM D5185m 1389 Sulfur ppm ASTM D5185m 3709 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 18 Sodium ppm ASTM D5185m >20 11 Potassium ppm ASTM D5185m >20 11 Fuel % ASTM D3524 >5 0.2 INFRA-RED method limit/base current history1 history2 Soot %	Molvbdenum		ASTM D5185m		70		
Magnesium ppm ASTM D5185m 1011 Calcium ppm ASTM D5185m 1379 Phosphorus ppm ASTM D5185m 1217 Zinc ppm ASTM D5185m 1389 Sulfur ppm ASTM D5185m 3709 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 18 Sodium ppm ASTM D5185m >11 Potassium ppm ASTM D5185m >20 11 Fuel % ASTM D3524 >5 0.2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7624 >20 12.1 Sulfation	-		ASTM D5185m		<1		
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Zinc							
Sulfur ppm ASTM D5185m 3709 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 18 Sodium ppm ASTM D5185m 11 Potassium ppm ASTM D5185m >20 11 Fuel % ASTM D3524 >5 0.2 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.6 Nitration Abs/cm *ASTM D7624 >20 12.1 Sulfation Abs/.1mm *ASTM D7415 >30 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 2							
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Nitration Abs/cm *ASTM D7624 >20 12.1 Sulfation Abs/.1mm *ASTM D7415 >30 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 22.3		0/					,
Sulfation Abs/.1mm *ASTM D7415 >30 24.2 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 22.3							
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 22.3	ivilialiuii	MUS/CIII	A311VI D7024	120			
Oxidation	Sulfation		*ACTM D741F	< 3U	2/1/2		
	Sulfation	Abs/.1mm			24.2		
Base Number (BN) mg KOH/g ASTM D2896 6.90	FLUID DEGRADA	Abs/.1mm	method	limit/base	current		
	FLUID DEGRADA Oxidation	Abs/.1mm ATION Abs/.1mm	method *ASTM D7414	limit/base	current 22.3	history1	history2



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: WC0859179 Lab Number : 06184012 Unique Number : 11035338

Received : 20 May 2024 **Tested** : 24 May 2024 Diagnosed : 24 May 2024 - Don Baldridge

Test Package: FLEET (Additional Tests: FuelDilution, KV40, PercentFuel) 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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Submitted By: SCOTT STULC