

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Machine Id MCI MOTOR COACH 2036 Component

Diesel Engine Fluid {not provided} (20 QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

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 suitable for further service.

			Jan2024	Feb2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0859174	WC0859170	
Sample Date		Client Info		20 Feb 2024	31 Jan 2024	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	14	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	3	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	27	
Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m		8 0	27 0	
				-		
Barium	ppm	ASTM D5185m		0	0	
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 56	0 40	
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		0 56 <1	0 40 <1	
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 56 <1 866	0 40 <1 559	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 56 <1 866 1057	0 40 <1 559 1627	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 56 <1 866 1057 932	0 40 <1 559 1627 808	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	0 56 <1 866 1057 932 1155	0 40 <1 559 1627 808 947	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 56 <1 866 1057 932 1155 2814	0 40 <1 559 1627 808 947 2248	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		0 56 <1 866 1057 932 1155 2814 current	0 40 <1 559 1627 808 947 2248 history1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>25	0 56 <1 866 1057 932 1155 2814 current 4	0 40 <1 559 1627 808 947 2248 history1 7	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>25 >20	0 56 <1 866 1057 932 1155 2814 current 4 2	0 40 <1 559 1627 808 947 2248 <u>history1</u> 7 2	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>25 >20	0 56 <1 866 1057 932 1155 2814 current 4 2 1	0 40 <1 559 1627 808 947 2248 history1 7 2 2 3	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>25 >20 >5	0 56 <1 866 1057 932 1155 2814 <u>current</u> 4 2 1 1 0.9	0 40 <1 559 1627 808 947 2248 history1 7 2 2 3 3 <1.0	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>25 >20 >5 limit/base >3	0 56 <1 866 1057 932 1155 2814 current 4 2 1 0.9 current	0 40 <1 559 1627 808 947 2248 history1 7 2 2 3 <1.0 history1	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185m ASTM D5185m	>25 >20 >5 limit/base >3 >20	0 56 <1 866 1057 932 1155 2814 current 4 2 1 0.9 current 1.1	0 40 <1 559 1627 808 947 2248 history1 7 2 2 3 <1.0 history1 1.3	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7844	>25 >20 >5 limit/base >3 >20	0 56 <1 866 1057 932 1155 2814 <u>current</u> 4 2 1 0.9 <u>current</u> 1.1 8.4	0 40 <1 559 1627 808 947 2248 history1 7 2 2 3 <1.0 history1 1.3 9.8	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	>25 >20 >5 limit/base >3 >20 >30	0 56 <1 866 1057 932 1155 2814 <i>current</i> 4 2 1 0.9 <i>current</i> 1.1 8.4 21.0	0 40 <1 559 1627 808 947 2248 history1 7 2 2 3 <1.0 history1 1.3 9.8 24.7	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7844 *ASTM D7844	>25 >20 >5 limit/base >3 >20 >30 limit/base	0 56 <1 866 1057 932 1155 2814 current 4 2 1 0.9 current 1.1 8.4 21.0 current	0 40 40 559 1627 808 947 2248 <u>history1</u> 7 2 2 3	 history2 history2 <li< th=""></li<>





OIL ANALYSIS REPORT

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.3

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.8

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

>0.2

Feb20/2

ch20/5

Feb20/24

: 23 Feb 2024

: 27 Feb 2024

Diagnosed

10. 8 (mg KOH/g)

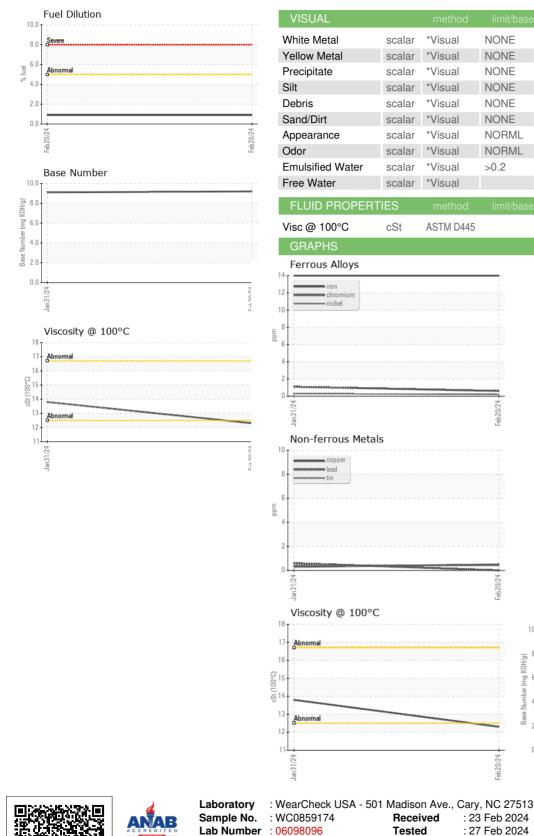
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0.0 Jan31/24

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Base

Base Number



JEFFERSON LINES 2100 E 26TH ST MINNEAPOLIS, MN US 55404 : 27 Feb 2024 - Wes Davis Contact: SCOTT STULC sstulc@jeffersonlines.com T: (651)728-0245 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:



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.

Page 2 of 2