

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

MCI 1910

Component Diesel Engine Fluid

PURUS SYNTHETIC BLEND 10W30 (--- GAL)

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.

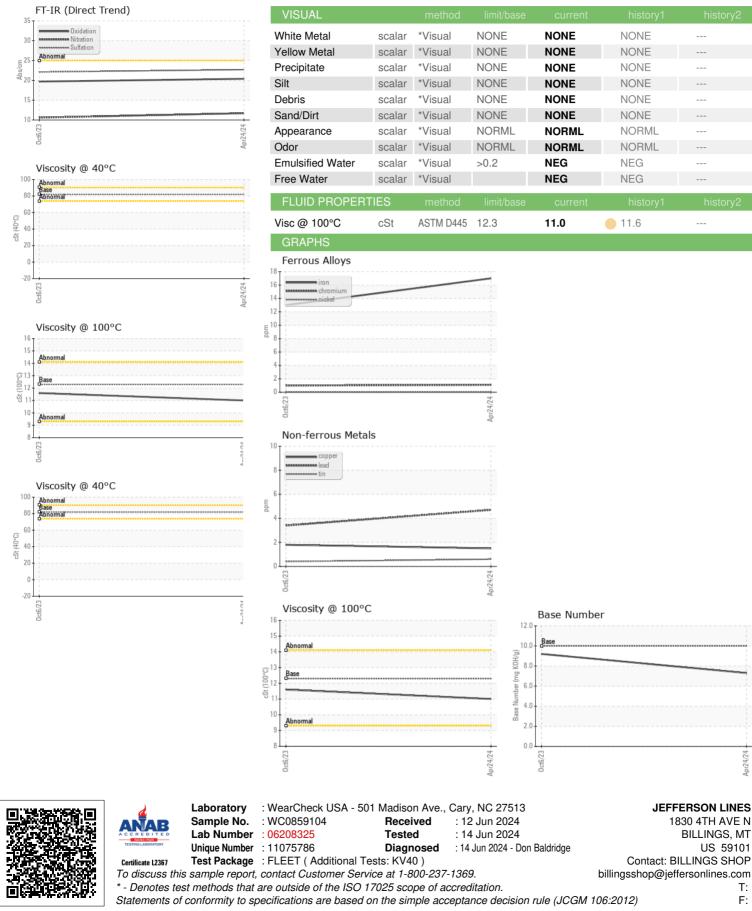
Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0859104	WC0859004	
Sample Date		Client Info		24 Apr 2024	06 Oct 2023	
Machine Age	mls	Client Info		456304	439030	
Oil Age	mls	Client Info		17274	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.3	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	17	13	
Chromium	ppm	ASTM D5185m	>5	1	1	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	3	
Lead	ppm	ASTM D5185m	>150	5	3	
Copper	ppm	ASTM D5185m	>90	2	2	
Tin	ppm	ASTM D5185m	>5	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
				•	0	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	-	-	history2
	ppm ppm		limit/base	current	history1	
Boron		ASTM D5185m	limit/base	current 32	history1 19	
Boron Barium	ppm	ASTM D5185m ASTM D5185m	limit/base	current 32 0	history1 19 0	
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 32 0 75	history1 19 0 83	
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 32 0 75 <1	history1 19 0 83 0	
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 32 0 75 <1 1047	history1 19 0 83 0 1094	
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 32 0 75 <1 1047 1190	history1 19 0 83 0 1094 1289	
Boron 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	limit/base	Current 32 0 75 <1 1047 1190 1123	history1 19 0 83 0 1094 1289 1231	
Boron 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	limit/base	Current 32 0 75 <1 1047 1190 1123 1383	history1 19 0 83 0 1094 1289 1231 1417	
Boron 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 ASTM D5185m method		current 32 0 75 <1 1047 1190 1123 1383 4084 current 24	history1 19 0 83 0 1094 1289 1231 1417 3646 history1 ▲ 54	
Boron 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	limit/base	Current 32 0 75 <1 1047 1190 1123 1383 4084 Current	history1 19 0 83 0 1094 1289 1231 1417 3646 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >35	current 32 0 75 <1 1047 1190 1123 1383 4084 current 24	history1 19 0 83 0 1094 1289 1231 1417 3646 history1 ▲ 54	 history2
Boron 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 ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >35	Current 32 0 75 <1 1047 1190 1123 1383 4084 current 24 2 <1 current current current	history1 19 0 83 0 1094 1289 1231 1417 3646 history1 54 3 1 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >35 >20 limit/base >7.5	current 32 0 75 <1 1047 1190 1123 1383 4084 current 24 2 <1 0 0	history1 19 0 83 0 1094 1289 1231 1417 3646 history1 54 3 1 history1 0 0 0 0 3646 0 history1 0 0.4	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >35 >20 limit/base >7.5	current 32 0 75 <1 1047 1190 1123 1383 4084 current 24 2 <1 current 0.6 11.7	history1 19 0 83 0 1094 1289 1231 1417 3646 history1 ▲ 54 3 1 history1 ● 54 3 1 0.4 10.6	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >35 >20 limit/base >7.5	current 32 0 75 <1 1047 1190 1123 1383 4084 current 24 2 <1 0 0	history1 19 0 83 0 1094 1289 1231 1417 3646 history1 54 3 1 history1 0 0 0 0 3646 0 history1 0 0.4	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	limit/base >35 >20 limit/base >7.5 >20	current 32 0 75 <1 1047 1190 1123 1383 4084 current 24 2 <1 current 0.6 11.7	history1 19 0 83 0 1094 1289 1231 1417 3646 history1 ▲ 54 3 1 history1 ● 54 3 1 0.4 10.6	 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	Imit/base >35 >20 Imit/base >7.5 >20 >7.5 >20 >30	current 32 0 75 <1 1047 1190 1123 1383 4084 current 24 2 <1 0.6 11.7 22.7	history1 19 0 83 0 1094 1289 1231 1417 3646 history1 54 3 1 history1 0.4 10.6 22.1	 history2 history2 history2



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Contact/Location: BILLINGS SHOP ? - JEFBIL