

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JEEP JEEP RUBICON

Front Gasoline Engine Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

Taking the sample cold limits the accuracy of our diagnosis. We understand that corrective action has already been taken. We recommend an early resample to monitor this condition. Advise you send the oil filter for a more detailed analysis of the wear situation that is occurring in this component. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Light concentration of visible metal present. The wear metal levels do not reflect the reported failure.

Contamination

Light fuel dilution occurring. There is a trace of moisture present in the oil. Test for glycol is negative. No other contaminants were detected in the oil.

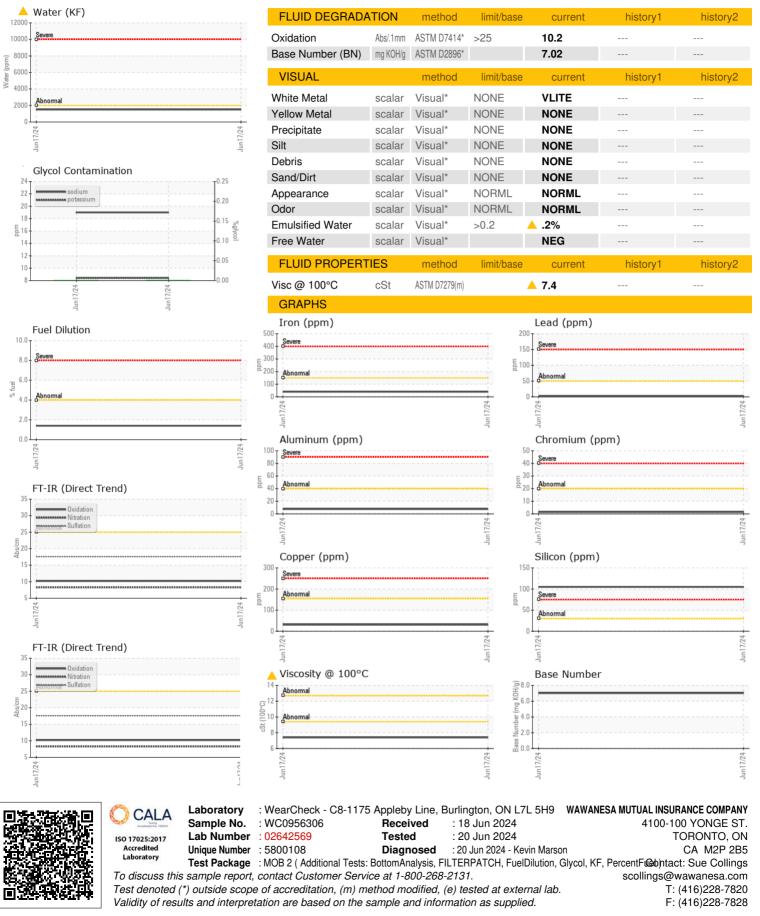
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0956306		
Sample Date		Client Info		17 Jun 2024		
Machine Age	kms	Client Info		3000		
Oil Age	kms	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	40		
Chromium	ppm	ASTM D5185(m)	>20	2		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>40	8		
Lead	ppm	ASTM D5185(m)	>50	1		
Copper	ppm	()	>155	31		
Tin	ppm	ASTM D5185(m)	>10	<1		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron				57		
	ppm	ASTM D5185(m)		57 1		
Barium	ppm	ASTM D5185(m) ASTM D5185(m)		154		
Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)		24		
Manganese Magnesium	ppm	ASTM D5185(m)		24 444		
Calcium	ppm			1263		
	ppm	ASTM D5185(m)				
Phosphorus Zinc	ppm	ASTM D5185(m)		624 737		
Sulfur	ppm	ASTM D5185(m)		1580		
Lithium	ppm	ASTM D5185(m)		<1		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	105		
Sodium	ppm	ASTM D5185(m)	>400	19		
Potassium	ppm	ASTM D5185(m)	>20	8		
Fuel	%	ASTM D7593*	>4.0	1.4		
Water	%	ASTM D6304*	>0.2	A 0.150		
ppm Water	ppm	ASTM D6304*	>2000	<u> </u>		
Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*	>20	8.3		
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6		



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