

# **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id **309** Component **Diesel Engine** Fluid **NOT GIVEN (--- GAL)**

# DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

# Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

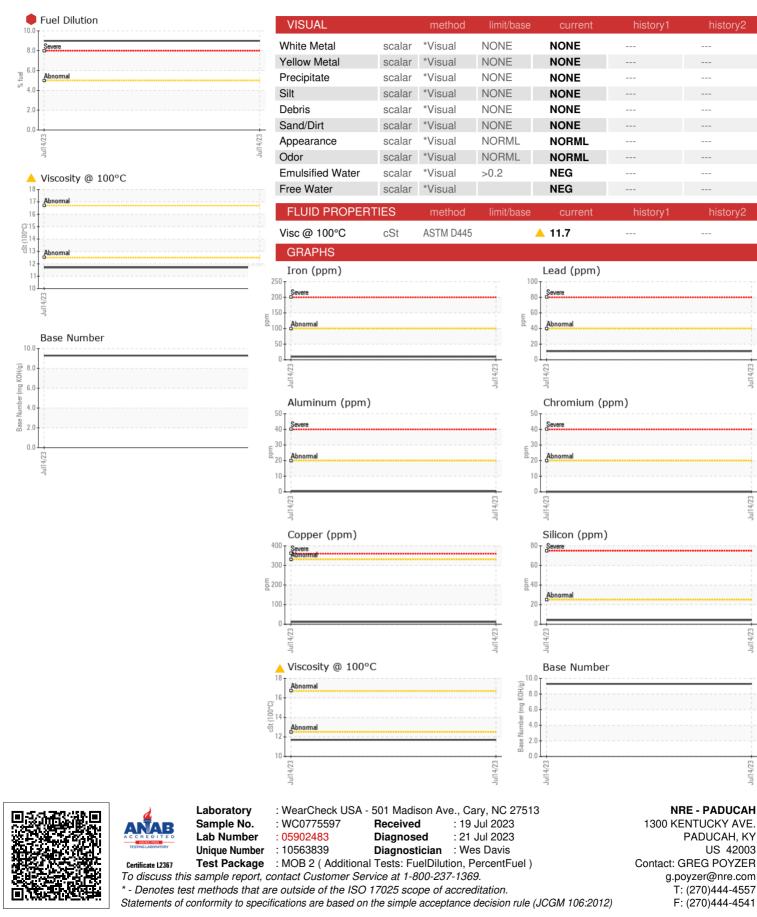
# Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sample NumberSample DateMachine AgehrsOil AgehrsOil Changedsample StatusSample StatusrrppmppmChromiumppmNickelppmSilverppmAluminumppmCopperppmTinppmVanadiumppmCadmiumppmManganeseppm	Client Info Client Info Client Info Client Info Client Info Client Info WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >100 >20 >4 >3 >20 >4 >3 >20 >40 >330 >15 >15	WC0775597         14 Jul 2023         0         N/A         SEVERE         current         NEG         10         0         -         10         0         -         10         0         -         11         12         1         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         0         -         -         0         -         0		<ul> <li></li> <li></li></ul>
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Oil AgehrsOil Changed	Client Info Client Info Client Info WC Method WC Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >100 >20 >4 >3 >20 >40 >330 >15	0 N/A SEVERE Current NEG Current 10 0 0 <1 0 <1 11 12 12 1 1 2 1 2 1 0 0	  history1  history1        -	 history2 histo
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Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >40 >330 >15	0 <1 11 12 1 <1 0	   	   
AluminumppmLeadppmCopperppmTinppmVanadiumppmCadmiumppmADDITIVESBoronppmBariumppmMolybdenumppmManganeseppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >40 >330 >15	<1 11 12 1 <1 0		  
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CopperppmTinppmVanadiumppmCadmiumppmADDITIVESBoronppmBariumppmMolybdenumppmManganeseppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>330 >15	12 1 <1 0		
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VanadiumppmCadmiumppmADDITIVESBoronppmBariumppmMolybdenumppmManganeseppm	ASTM D5185m ASTM D5185m		<1 0		
Cadmium ppm ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm	ASTM D5185m	limit/base	0		
ADDITIVES Boron ppm Barium ppm Molybdenum ppm Manganese ppm		limit/base			
BoronppmBariumppmMolybdenumppmManganeseppm	method	limit/base			
BariumppmMolybdenumppmManganeseppm			current	history1	history2
Molybdenum ppm Manganese ppm	ASTM D5185m		59		
Manganese ppm	ASTM D5185m		0		
	ASTM D5185m		47		
Magnesium nom	ASTM D5185m		<1		
magnesium ppm	ASTM D5185m		10		
Calcium ppm	ASTM D5185m		3207		
Phosphorus ppm	ASTM D5185m		1		
Zinc ppm	ASTM D5185m		0		
Sulfur ppm	ASTM D5185m		2556		
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m	>25	4		
Sodium ppm	ASTM D5185m		3		
Potassium ppm	ASTM D5185m	>20	0		
Fuel %	ASTM D3524	>5	9.0		
INFRA-RED	method	limit/base	current	history1	history2
Soot % %	*ASTM D7844	>3	0.2		
Nitration Abs/c	m *ASTM D7624	>20	6.6		
Sulfation Abs/.1m	nm *ASTM D7415	>30	13.4		
FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation Abs/.1m	nm *ASTM D7414	>25	7.0		
Base Number (BN) mg KOH			9.29		



# **OIL ANALYSIS REPORT**



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