

Machine Id NOT GIVEN DC0017157 Component Diesel Engine Fluid {not provided} (--- GAL)

(not provided) (--- GAL)

RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. 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

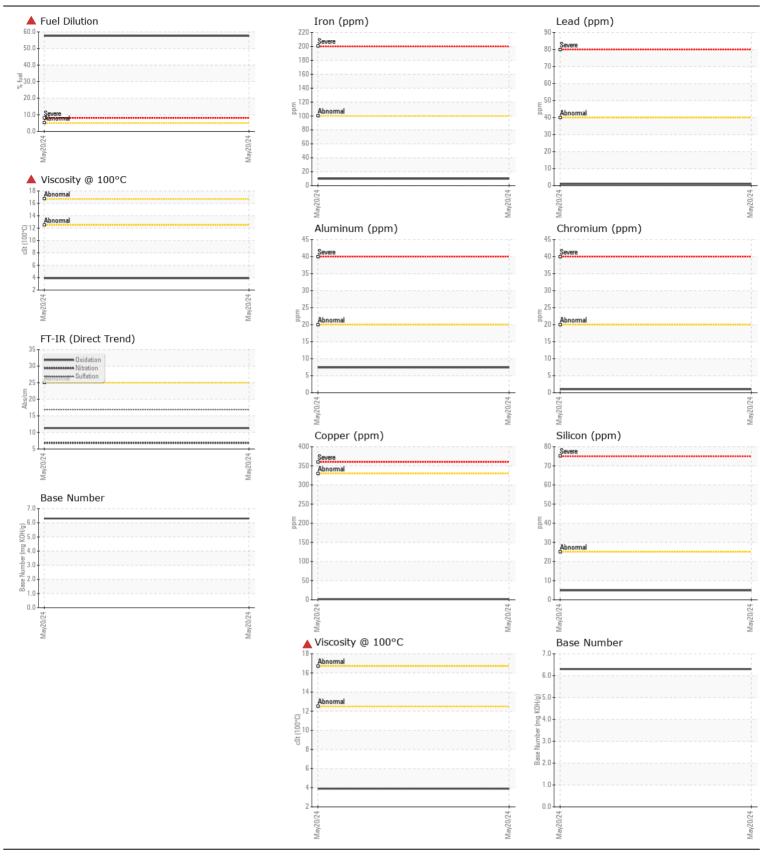
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

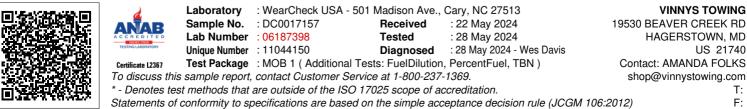
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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0017157		
Sample Date		Client Info		20 May 2024		
Machine Age	mls	Client Info		0		
Oil Age	mls	Client Info		500		
Filter Age	mls	Client Info		500		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				SEVERE		
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Iron	ppm	ASTM D5185m	>100	10		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	7		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	2		
Tin	ppm	ASTM D5185m	>15	1		
Vanadium	ppm	ASTM D5185m		<1		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	5		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>5	5 7.6		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	6.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.9		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		7		
Boron	ppm	ASTM D5185m		104		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		40		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		214		
Calcium	ppm	ASTM D5185m		650		
Phosphorus	ppm	ASTM D5185m		252		
Zinc	ppm	ASTM D5185m		385		
Sulfur	ppm	ASTM D5185m		880		
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.3		
Base Number (BN)	mg KOH/g	ASTM D2896	-	6.3		
	oC+			A 2.0		

Visc @ 100°C cSt

ASTM D445

3.9





Contact/Location: AMANDA FOLKS - VINHAG Page 2 of 2