

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL

X

KUBOTA ZD 1211 48572

Diesel Engine Fluid NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Taking the sample cold limits the accuracy of our diagnosis. We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil.

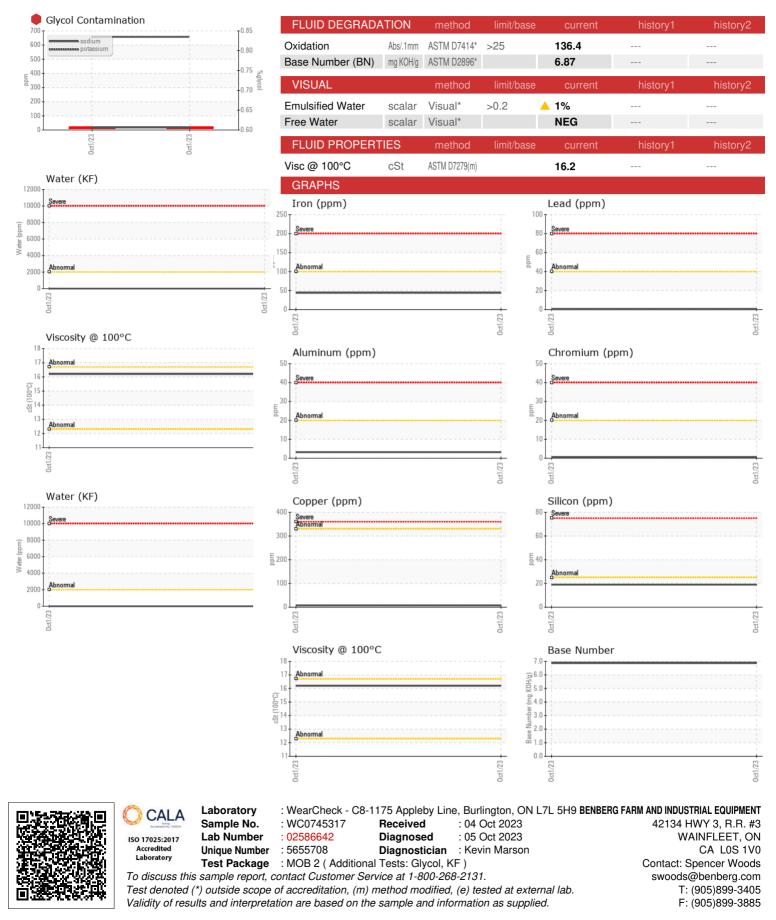
Fluid Condition

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

SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Number		Client Info		WC0745317		
Sample Date		Client Info		01 Oct 2023		
Machine Age	hrs	Client Info		445		
Oil Age	hrs	Client Info		445 0		
Oil Changed	1115	Client Info		N/A		
Sample Status				SEVERE		
-				SEVENE		
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	44		
Chromium	ppm	ASTM D5185(m)	>20	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	<1		
Aluminum	ppm	ASTM D5185(m)	>20	3		
Lead	ppm	ASTM D5185(m)	>40	<1		
Copper	ppm	ASTM D5185(m)	>330	8		
Tin	ppm	ASTM D5185(m)	>15	0		
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	ppm	ASTM D5185(m)		7		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		4		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		30		
Calcium	ppm	ASTM D5185(m)		1834		
Phosphorus	ppm	ASTM D5185(m)		555		
Zinc	ppm	ASTM D5185(m)		920		
Sulfur	ppm	ASTM D5185(m)		2369		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	19		
Sodium	ppm	ASTM D5185(m)		17		
Potassium	ppm	ASTM D5185(m)	>20	<u> </u>		
Glycol	%	ASTM D7922*		0.608		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.4		
Nitration	Abs/cm	ASTM D7624*	>20	122.4		
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.6		
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Contact/Location: Spencer Woods - BENWAI