

# **OIL ANALYSIS REPORT**

Sample Rating Trend





CATERPILLAR 1041

Component Diesel Engine Fluid

## DYNA GARD 15W40 (--- 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.

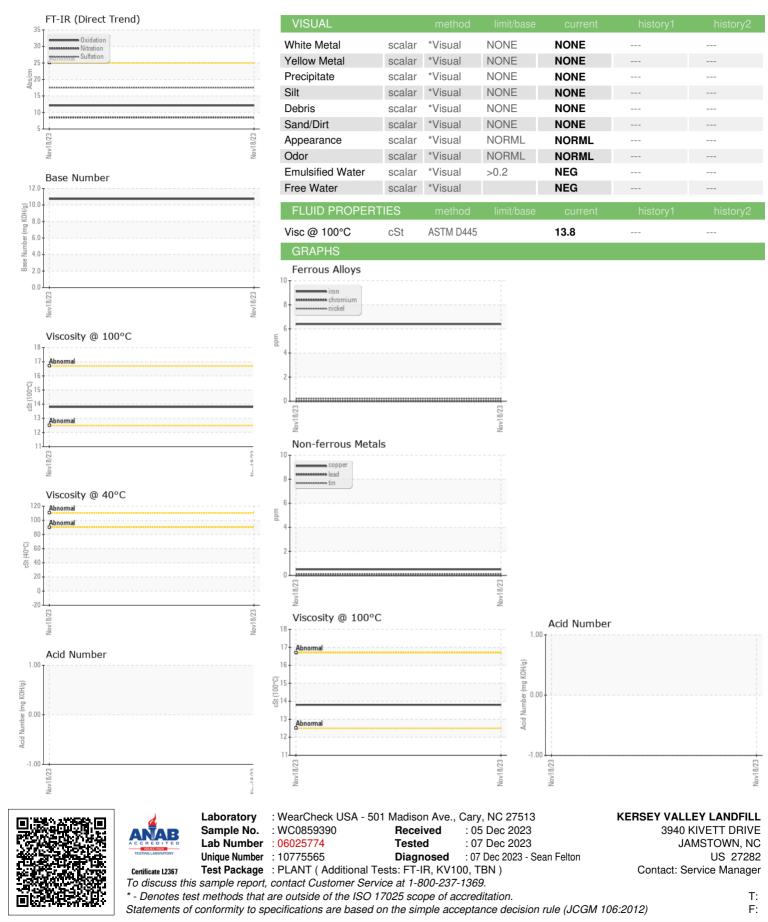
### Fluid Condition

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		WC0859390		
Sample Date		Client Info		18 Nov 2023		
Machine Age	hrs	Client Info		14422		
Oil Age	hrs	Client Info		250		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	24		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	6		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		80		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		67		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		190		
Calcium	ppm	ASTM D5185m		1943		
Phosphorus	ppm	ASTM D5185m		1033		
Zinc	ppm	ASTM D5185m		1239		
Sulfur	ppm	ASTM D5185m		3940		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.2	NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	8.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5		
FLUID DEGRADA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.1		
Base Number (BN)	mg KOH/g	ASTM D2896		10.73		
	0.09					



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