

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 



22402 Component **Diesel Engine** 

{not provided} (--- QTS)

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Test for glycol is negative. There is no indication of any contamination in the oil.

#### **Fluid Condition**

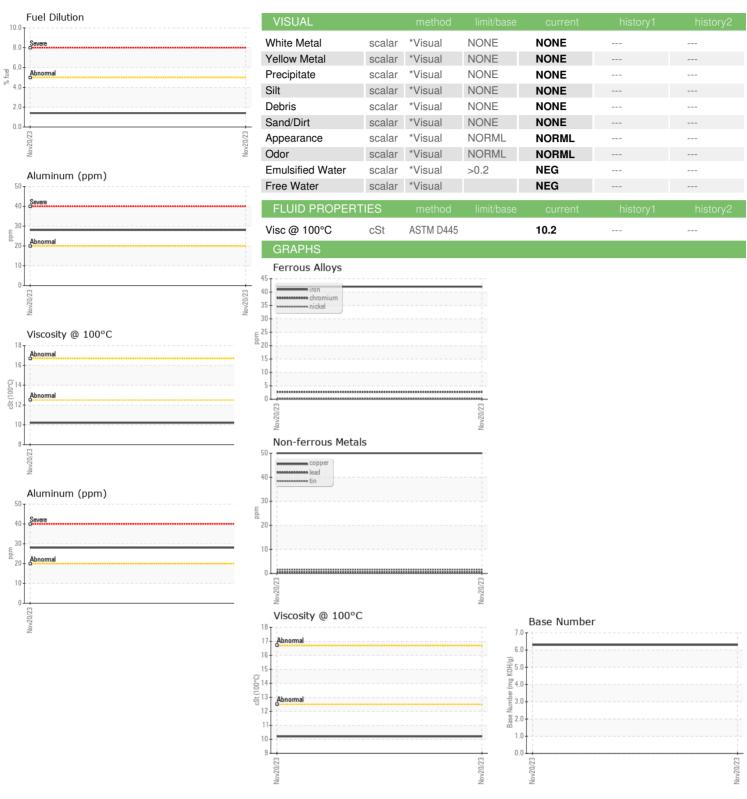
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

				Nov2023		
SAMPLE INFORM	ΛΑΤΙΩΝ	method	limit/base	current	history1	history2
	MATION		IIIIIIIIIIII			
Sample Number		Client Info		WC0832061		
Sample Date		Client Info		20 Nov 2023		
Machine Age	mls	Client Info		111920		
Oil Age	mls	Client Info		50000		
Oil Changed		Client Info		Changed NORMAL		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	42		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	28		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	50		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		71		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		797		
Calcium	ppm	ASTM D5185m		1271		
Phosphorus	ppm	ASTM D5185m		891		
Zinc	ppm	ASTM D5185m		1105		
Sulfur	ppm	ASTM D5185m		2212		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	64		
Fuel	%	ASTM D3524	>5	1.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3		
Nitration	Abs/cm	*ASTM D7624	>20	10.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.3		
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8		
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	720	6.3		
Dase Mulliber (DIM)	ilig NOI1/g	AO 1 W D2030		0.3		

Contact/Location: GARY LAWYER - MIDWIL



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WC0832061 : 06064903 : 10836285

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed

: 24 Jan 2024 Diagnostician : Doug Bogart **Test Package**: FLEET (Additional Tests: FuelDilution, PercentFuel)

: 18 Jan 2024

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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