

## **OIL ANALYSIS REPORT**



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Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (--- QTS)

#### DIAGNOSIS

Machine Id **21922** Component

#### 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.

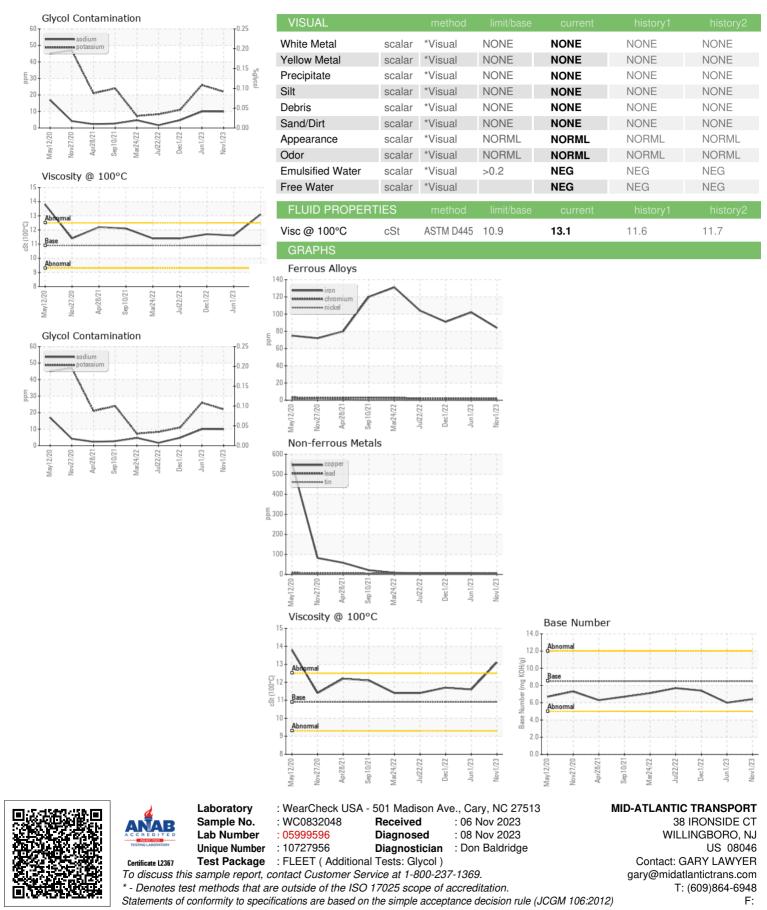
### Fluid Condition

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

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0832048	WC0784080	WC0747831
Sample Date		Client Info		01 Nov 2023	01 Jun 2023	01 Dec 2022
Machine Age	mls	Client Info		492851	443676	372847
Oil Age	mls	Client Info		0	60000	50000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	84	<b>1</b> 02	91
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		3	4	3
Lead	ppm	ASTM D5185m	>40	4	5	6
Copper	ppm	ASTM D5185m		3	5	4
Tin	ppm	ASTM D5185m	>15	<1	1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	22	5	14
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	66	72	77
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	863	920	856
Calcium	ppm	ASTM D5185m	3000	1351	1309	1359
Phosphorus	ppm	ASTM D5185m	1150	1038	1018	943
Zinc	ppm	ASTM D5185m	1350	1343	1263	1262
Sulfur	ppm	ASTM D5185m	4250	3079	3100	3659
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	4
Sodium	ppm	ASTM D5185m	0	10	10	5
Potassium	ppm	ASTM D5185m	>20	22	26	11
Glycol	%	*ASTM D2982	20	NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.8	0.7
Nitration	Abs/cm	*ASTM D7624		10.1	10.7	10.4
Sulfation	Abs/.1mm	*ASTM D7024	>30	23.5	25.1	24.2
FLUID DEGRADA		method	limit/base		history1	history2
					23.1	
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.7		19.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.4	6.0	7.4



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Contact/Location: GARY LAWYER - MIDWIL