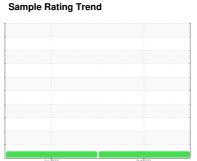


# **OIL ANALYSIS REPORT**

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NORMAL



Machine Id 22304 Component

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 10W30 (--- QTS)** 

### 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

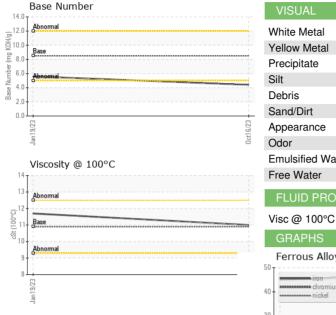
## **Fluid Condition**

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

			Jan 2023	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0832047	WC0747847	
Sample Date		Client Info		16 Oct 2023	19 Jan 2023	
Machine Age	mls	Client Info		206021	94491	
Oil Age	mls	Client Info		50000	50000	
Oil Changed	11110	Client Info		Changed	Changed	
Sample Status		Oliotic IIIIo		NORMAL	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel	. •	WC Method	>5	<1.0	<1.0	
Glycol		WC Method	>5	<1.0 NEG	NEG	
•		VVO IVIETITOU		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	48	45	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	12	18	
Lead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	4	6	
Tin	ppm	ASTM D5185m	>15	<1	1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	5	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	98	59	
Manganese	ppm	ASTM D5185m		<1	1	
Magnesium	ppm	ASTM D5185m	450	1003	828	
Calcium	ppm	ASTM D5185m	3000	1338	1204	
Phosphorus	ppm	ASTM D5185m	1150	1163	928	
Zinc	ppm	ASTM D5185m	1350	1459	1131	
Sulfur	ppm	ASTM D5185m	4250	3178	2987	
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	13	
Sodium	ppm	ASTM D5185m		2	3	
Potassium	ppm	ASTM D5185m	>20	28	40	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	13.3	11.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.7	24.2	
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.2	19.7	
Base Number (BN)	mg KOH/g	ASTM D2896		4.4	5.6	
	39					



## **OIL ANALYSIS REPORT**

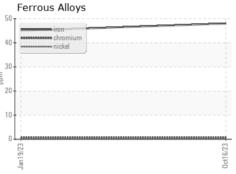


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2

11.0

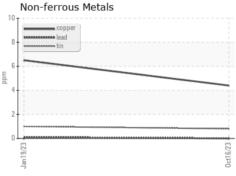
11.7

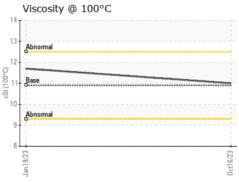
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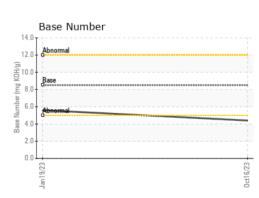


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ASTM D445 10.9











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10727953 Test Package : FLEET

: WC0832047 : 05999593

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

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

: 06 Nov 2023 : 08 Nov 2023 Diagnostician : Don Baldridge

US 08046 Contact: GARY LAWYER gary@midatlantictrans.com T: (609)864-6948

**MID-ATLANTIC TRANSPORT** 

38 IRONSIDE CT

WILLINGBORO, NJ

\* - 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)