

OIL ANALYSIS REPORT

Sample Rating Trend





2305 Component

Diesel Engine

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

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

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. There is no indication of any contamination in the oil.

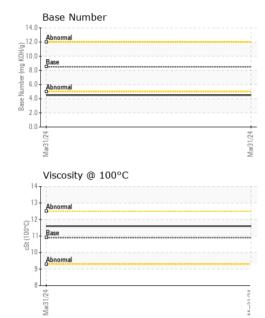
Fluid Condition

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

				Mar2024		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Client Info	mmbacco	WC0901334		
Sample Number		Client Info		31 Mar 2024		
Sample Date Machine Age	mls	Client Info		99098		
Oil Age	mls	Client Info		50000		
Oil Changed	11113	Client Info		Changed		
Sample Status		Oliotic IIIIo		NORMAL		
CONTAMINATION	M	method	limit/base	current	history1	history2
	N					
Fuel Water		WC Method	>5	<1.0 NEG		
		WC Method	>0.2	NEG		
Glycol				NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	47		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	13		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	6		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	64		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	450	909		
Calcium	ppm	ASTM D5185m	3000	1327		
Phosphorus	ppm	ASTM D5185m	1150	1038		
Zinc	ppm	ASTM D5185m	1350	1229		
Sulfur	ppm	ASTM D5185m	4250	3455		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm		>25	12		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	28		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	13.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	27.1		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.7		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.5		
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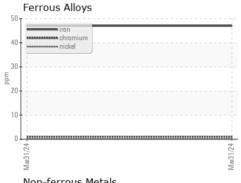
OIL ANALYSIS REPORT



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

11.6

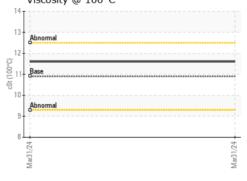
Visc @ 100°C
GRAPHS

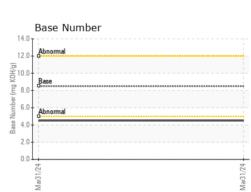


cSt

ASTM D445 10.9

Non-	ferrous Metals	
	copper	
6+	energen (in	
Edd 4		
2		
0		24
Mar31/24		Mar31/24
Visco	nsity @ 100°C	









Certificate L2367

Laboratory Sample No.

: WC0901334 Lab Number : 06134458 Unique Number : 10953923 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Apr 2024 **Tested** Diagnosed

: 02 Apr 2024 : 02 Apr 2024 - Wes Davis **MID-ATLANTIC TRANSPORT**

38 IRONSIDE CT WILLINGBORO, NJ US 08046

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

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)