

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



5980
Component
Diesel Engine

ZINC-FREE ENGINE OIL SAE 40 (--- GAL)

רו	IΛ	G۱	M/	10	
$\boldsymbol{L}$	ın	uі	AC	ノン	ı

#### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) ZINC-FREE ENGINE OIL SAE 40. Please confirm.

Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

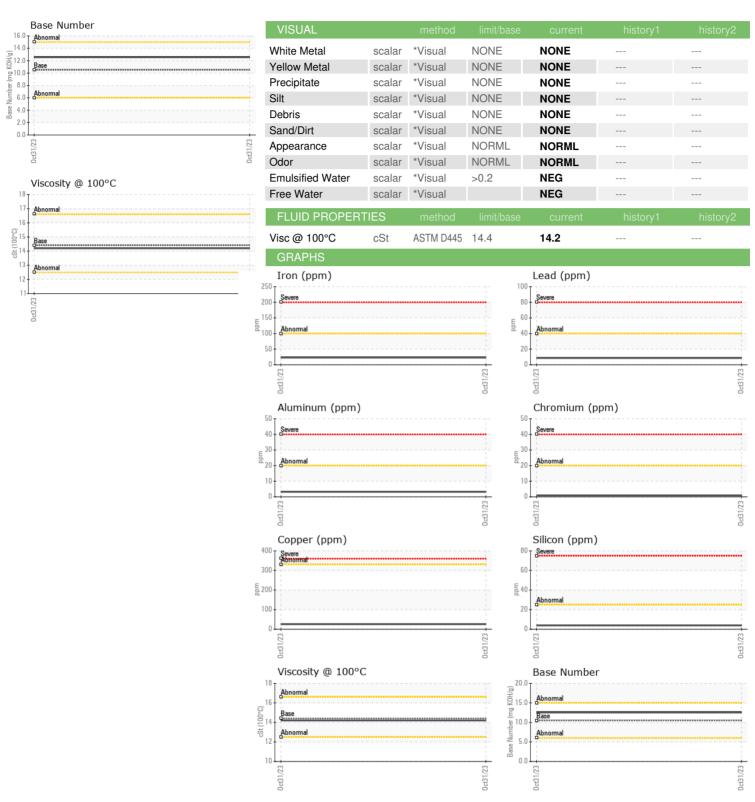
#### Fluid Condition

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

				Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0775524		
Sample Date		Client Info		31 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	V	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	23		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	3		
Lead	ppm	ASTM D5185m	>40	9		
Copper	ppm	ASTM D5185m	>330	26		
Tin	ppm	ASTM D5185m	>15	8		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	29		
Barium	ppm	ASTM D5185m	5	<1		
Molybdenum	ppm	ASTM D5185m	37	49		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	12	15		
Calcium	ppm	ASTM D5185m	3250	3080		
Phosphorus	ppm	ASTM D5185m	50	20		
Zinc	ppm	ASTM D5185m	5	8		
Sulfur	ppm	ASTM D5185m	5750	3198		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.9		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	7.3		
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	12.55		



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number

: WC0775524 : 05995879 : 10724239 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Nov 2023 Diagnosed : 02 Nov 2023 : Wes Davis Diagnostician

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)

**NRE - PADUCAH** 1300 KENTUCKY AVE. PADUCAH, KY

US 42003 Contact: GREG POYZER g.poyzer@nre.com

T: (270)444-4557 F: (270)444-4541

Contact/Location: GREG POYZER - PADPAD