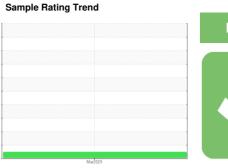


# **OIL ANALYSIS REPORT**







Machine Id MTU 1 BR Component
Diesel Engine

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

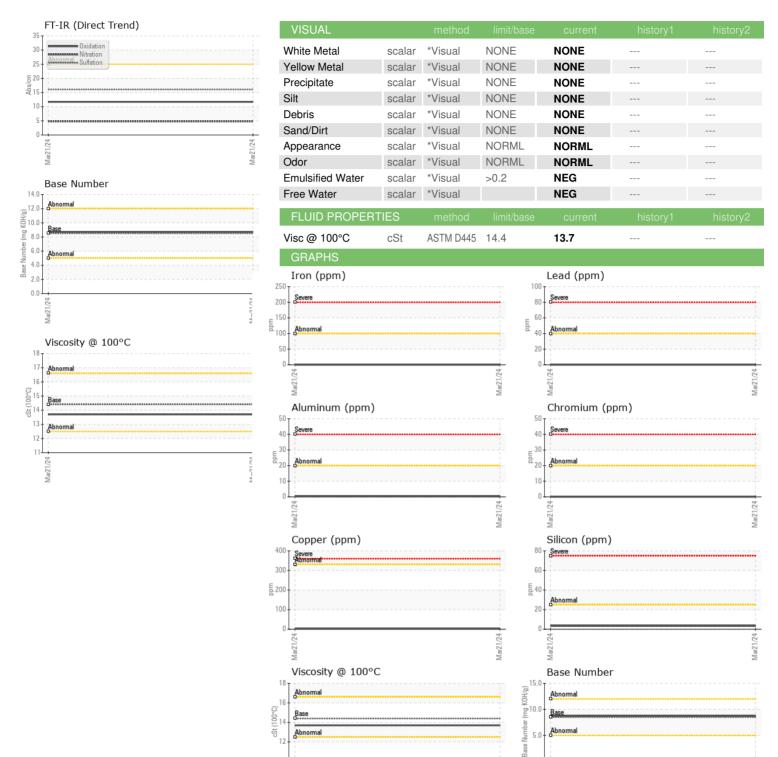
## **Fluid Condition**

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

				Mar2024		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0911365		
Sample Date		Client Info		21 Mar 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
					History	HISTOLYZ
Iron	ppm	ASTM D5185m	>100	0		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium Silver	ppm	ASTM D5185m	. 2	0		
Aluminum	ppm	ASTM D5185m	>3	0 <1		
	ppm	ASTM D5185m	>20	0		
Lead	ppm	ASTM D5185m	>40	4		
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>330	<1		
Vanadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		0		
	ррпп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	10		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	48		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	450	725		
Calcium	ppm	ASTM D5185m	3000	1153		
Phosphorus	ppm	ASTM D5185m	1150	868		
Zinc	ppm	ASTM D5185m	1350	1029		
Sulfur	ppm	ASTM D5185m	4250	3025		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm	ASTM D5185m	>158	0		
Potassium	ppm	ASTM D5185m	>20	0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	4.8		
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.1		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.7		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.7		



# **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0911365 Lab Number : 06143866 Unique Number : 10968674

Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

Received

**Tested** 

: 10 Apr 2024

: 11 Apr 2024

: 11 Apr 2024 - Wes Davis

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)

**NATIONAL POWER CORP** 

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F: (919)790-9714

Contact/Location: BRANDON RICE - NATRAL