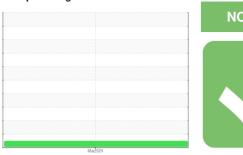


# **OIL ANALYSIS REPORT**

Sample Rating Trend







4A
Component
Diesel Engine

Machine Id

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

### DIAGNOSIS

### Recommendation

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

#### Wear

Metal levels are typical for a new component breaking in.

# Contamination

There is no indication of any contamination in the

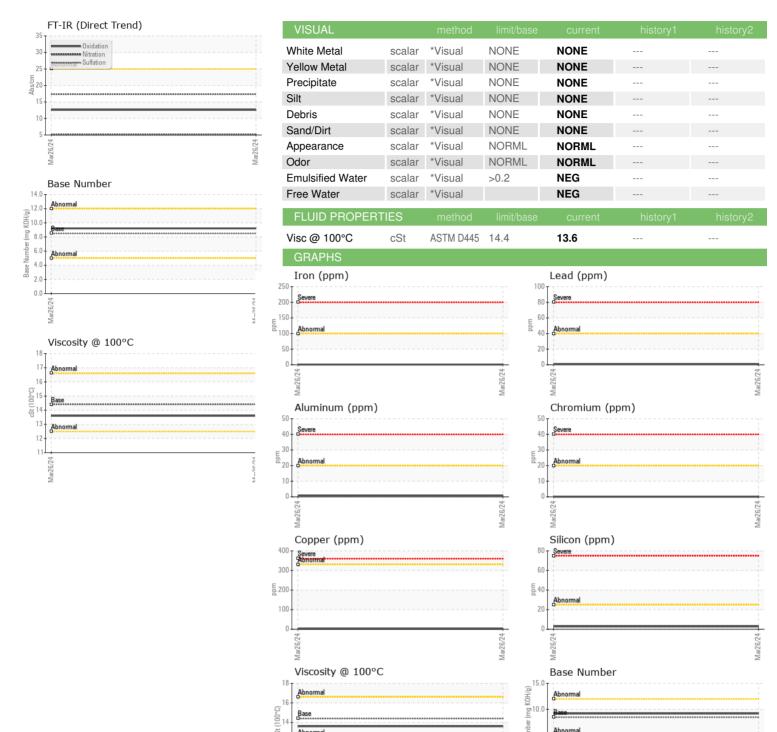
## **Fluid Condition**

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	MATION	method	limit/base	current	history1	history2
	ATION		IIIIII/Dase			HISTOTYZ
Sample Number		Client Info		WC0682959		
Sample Date	,	Client Info		26 Mar 2024		
Machine Age	hrs	Client Info		558		
Oil Age	hrs	Client Info		24		
Oil Changed		Client Info		Not Changd NORMAL		
Sample Status				NONWAL		
CONTAMINATION	١	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
Iron	ppm	ASTM D5185m	>100	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	1		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		<1		
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	47		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	450	849		
Calcium	ppm	ASTM D5185m	3000	1173		
Phosphorus	ppm	ASTM D5185m	1150	1033		
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1115 3443		
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3		
Sodium	ppm			<1		
Potassium	ppm	ASTM D5185m	>20	<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0		
Nitration	Abs/cm	*ASTM D7624	>20	5.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.2		



# **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Lab Number : 06143885

: WC0682959 **Unique Number** : 10968693

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

Test Package : MOB 1 ( Additional Tests: TBN )

**Tested** : 11 Apr 2024 Diagnosed : 11 Apr 2024 - Wes Davis

: 10 Apr 2024

Received

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)

RALEIGH, NC US 27616

**NATIONAL POWER CORP** 

4541 PRESLYN DR

Contact: BRANDON RICE brandon.rice@natpow.com

F: (919)790-9714

Report Id: NATRAL [WUSCAR] 06143885 (Generated: 04/11/2024 04:49:42) Rev: 1

Contact/Location: BRANDON RICE - NATRAL