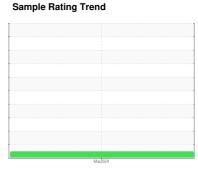


# **OIL ANALYSIS REPORT**



**NORMAL** 



Machine Id **8428113** 

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.

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

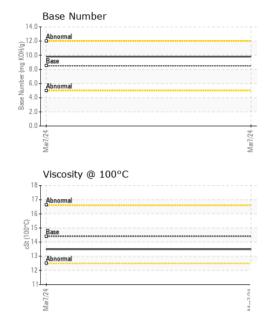
### **Fluid Condition**

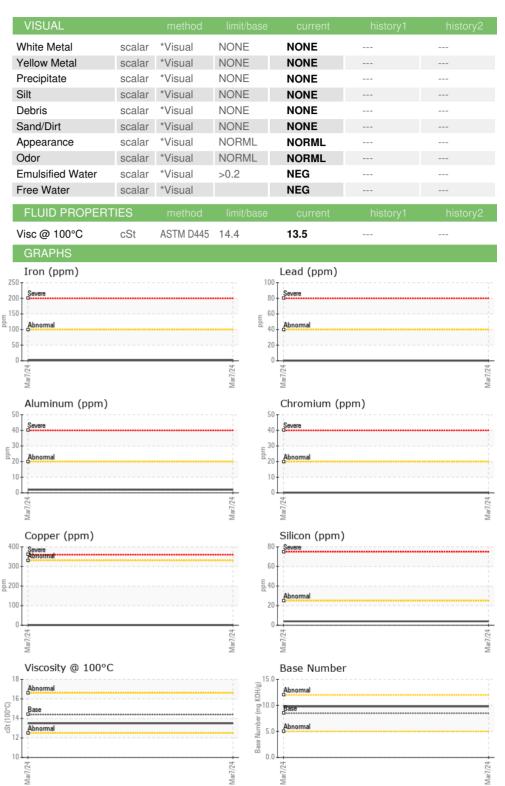
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0637047		
Sample Date		Client Info		07 Mar 2024		
Machine Age	hrs	Client Info		401		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	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	2		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m		<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	3		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	63		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	450	1022		
Calcium	ppm	ASTM D5185m	3000	1143		
Phosphorus	ppm	ASTM D5185m	1150	1165		
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1318 3492		
						history ()
CONTAMINANTS		method ASTM D5185m	limit/base	current 4	history1	history2
Sodium	ppm	ASTM D5185m	>25	1		
Potassium	ppm	ASTM D5185m	>20	1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	4.6		
Sulfation	Abs/.1mm	*ASTM D7415		17.4		
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.8		
(=14)	39					



## **OIL ANALYSIS REPORT**









Laboratory Sample No.

Lab Number : 06125529

**Unique Number** : 10939680

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0637047

**Tested** Diagnosed

Received

: 22 Mar 2024 : 22 Mar 2024 - Wes Davis

: 21 Mar 2024

Test Package : MOB 1 ( Additional Tests: TBN )

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.

**NATIONAL POWER CORP** 

4541 PRESLYN DR RALEIGH, NC US 27616

Contact: ANDREW RANDALL andrew.randall@natpow.com

> T: (919)790-1672 F: (919)790-9714

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)