

OIL ANALYSIS REPORT

SAMPLE INFORMATION

hrs

hrs

ppm

%

Base Number (BN) mg KOH/g ASTM D2896 8.5

Abs/.1mm

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

*ASTM D7844

*ASTM D7415

Abs/cm *ASTM D7624 >20

Abs/.1mm *ASTM D7414

ASTM D5185m 3000

ASTM D5185m 1350

ASTM D5185m >158

450

1150

4250

>35

>20

>3

>30

>25

938

994

1009

1202

3411

4

2

0

0.1

4.8

16.9

13.1

9.1

Sample Number

Sample Date Machine Age

Oil Changed Sample Status

CONTAMINATION

WEAR METALS

Oil Age

Fuel

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Antimony

Vanadium

Cadmium

Boron

Barium

Molybdenum

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Silicon

Sodium

Soot %

Nitration

Sulfation

Oxidation

Potassium

INFRA-RED

FLUID DEGRADATION

Titanium

Aluminum

Chromium

GENERAC 3004120379 - BARCLAY DOWNS UNIT 3

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (13 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

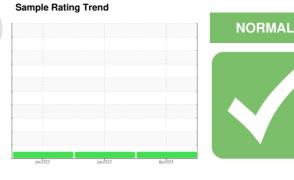
Metal levels are typical for a new component breaking in.

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.



	Jan2022	Jan2023 Apr2	024	
method	limit/base	current	history1	history2
Client Info		WC0911363	WC0753143	WCM1348029
Client Info		23 Apr 2024	09 Jan 2023	14 Jan 2022
Client Info		145	94	54
Client Info		0	0	20
Client Info		Changed	N/A	Changed
		NORMAL	NORMAL	NORMAL
method	limit/base	current	history1	history2
WC Method	>5	<1.0	<1.0	<1.0
WC Method	>0.2	NEG	NEG	NEG
WC Method		NEG	NEG	NEG
method	limit/base	current	history1	history2
ASTM D5185m	>250	2	4	5
ASTM D5185m	>10	<1	<1	<1
ASTM D5185m	>5	0	0	<1
ASTM D5185m		0	<1	1
ASTM D5185m	>3	0	0	<1
ASTM D5185m	>35	1	0	1
ASTM D5185m		0	1	1
ASTM D5185m		4	6	6
ASTM D5185m		<1	<1	1
ASTM D5185m				<1
ASTM D5185m		0	0	<1
ASTM D5185m		0	0	0
method	limit/base	current	history1	history2
ASTM D5185m	250	4	63	89
ASTM D5185m	10	0	0	0
ASTM D5185m		57	24	10
ASTM D5185m		2	<1	<1

Report Id: NATRAL [WUSCAR] 06176749 (Generated: 05/14/2024 11:30:50) Rev: 1

Contact/Location: BRANDON RICE - NATRAL

694

1185

864

1028

3312

8

2

1

0.1

5.8

19.0

14.5

9.5

696

1392

1075

1214

3592

8

2

3

0.1

6.5

19.6

13.2

10.9



3

30

25

<u></u> 520

age 15

14.0

0.212.0 0.0 KOH/g) 0.8 Base Number (mg KOH/g) 0.9 CON KOH/g)

2.0

0.0

18

16

4/22

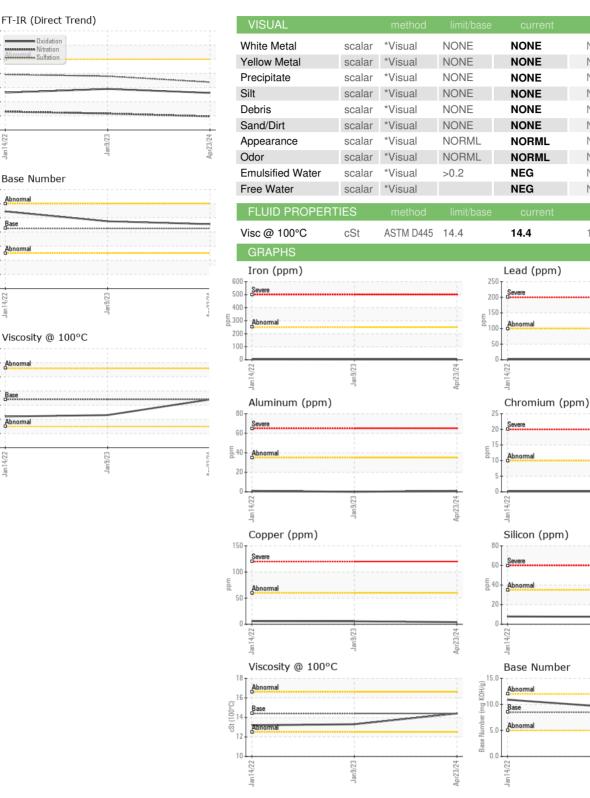
Jan1

cSt (100°C) Ba

10

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OIL ANALYSIS REPORT



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

Received

Diagnosed

Tested

: 13 May 2024

: 14 May 2024

: 14 May 2024 - Wes Davis

NATIONAL POWER CORP 4541 PRESLYN DR RALEIGH, NC US 27616 Contact: BRANDON RICE brandon.rice@natpow.com T: F: (919)790-9714

* - 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)

Certificate 12367

Report Id: NATRAL [WUSCAR] 06176749 (Generated: 05/14/2024 11:30:50) Rev: 1

Laboratory

Sample No.

Lab Number : 06176749

Unique Number : 11022802

: WC0911363

Test Package : MOB 1 (Additional Tests: TBN)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact/Location: BRANDON RICE - NATRAL

an9/23

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

13.3

an9/73