

OIL ANALYSIS REPORT

Oxidation

Abs/.1mm *ASTM D7414 >25

Base Number (BN) mg KOH/g ASTM D2896

Area [150823] **GENERAC RALEIGH WADE**

Diesel Engine Fluid RED STAR 15W40 (5 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

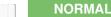
There is no indication of any contamination in the oil.

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.

E			1	017 0c2010 0c2010 0c2020 5c		
SAMPLE INFOR	MATION	method	limit/base		history1	history2
Sample Number		Client Info		WC0911429	WC0663199	WC0812699
Sample Date		Client Info		05 Apr 2024	13 Dec 2023	12 Sep 2023
Machine Age	hrs	Client Info		403	396	384
Dil Age	hrs	Client Info		0	0	0
Dil Changed	1110	Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIC	NI	method	limit/base		history1	history2
-uel Notor		WC Method	>5	<1.0	<1.0	<1.0
Vater		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	e current	history1	history2
ron	ppm	ASTM D5185m	>100	1	<1	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
lickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		23	20	21
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
ead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	1	1	<1
īn	ppm	ASTM D5185m	>15	<1	0	<1
/anadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		110	98	106
Barium	ppm	ASTM D5185m		0	0	0
lolybdenum	ppm	ASTM D5185m		63	55	59
Manganese	ppm	ASTM D5185m		<1	<1	0
lagnesium	ppm	ASTM D5185m		200	177	197
Calcium	ppm	ASTM D5185m		2173	2005	2041
Phosphorus	ppm	ASTM D5185m		1158	952	1026
linc	ppm	ASTM D5185m		1227	1210	1236
Sulfur	ppm	ASTM D5185m		4320	3687	4143
CONTAMINANT	S	method	limit/base	e current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	4
Sodium	ppm	ASTM D5185m		0	<1	1
otassium	ppm	ASTM D5185m	>20	3	1	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.9	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	17.5	17.6
FLUID DEGRAD	ATI <u>ON</u>	method	limit/base	current	history1	history2
	AL / 4	*AOTA DEVIC	05	10.0	10.0	10.1

Sample Rating Trend



13.2

7.6

13.4

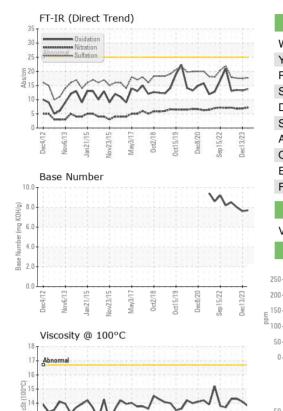
8.0

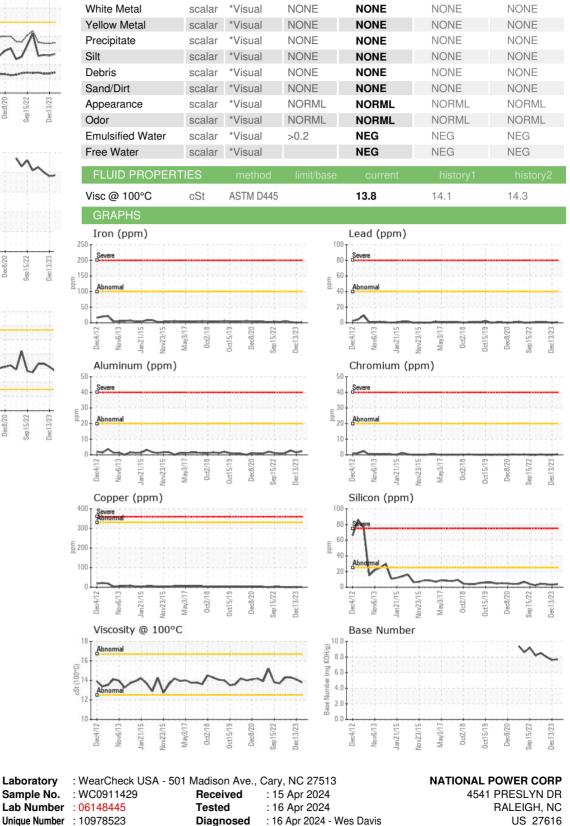
13.8

7.7



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Abnorma

0 Pc4/17

Test Package : MOB 1 (Additional Tests: TBN) Certificate 12367 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)

50

40

30

20 10

0

400

300

la 200

100

18

cSt (100°C)

10

Laboratory

Sample No.

tep15/22

Jec13/23

US 27616 Contact: BRANDON RICE brandon.rice@natpow.com T: F: (919)790-9714

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Contact/Location: BRANDON RICE - NATRAL