

## Machine Id GENERAC 3164472 - BRADFORD DOWNS

## Natural Gas Engine

## SHELL ROTELLA T 15W40 (4 QTS)

SHELL ROTELLA I 15W40 (4 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0887886	WC0647401	WC0458272
	Sample Date		Client Info		18 Apr 2024	11 Mar 2022	05 Apr 2021
	Machine Age	hrs	Client Info		450	418	402
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD				. 50	•	0	·····
WEAR	Iron	ppm	ASTM D5185m		0	3	2
Metal levels are typical for a new component breaking in.	Chromium Nickel	ppm	ASTM D5185m		0	<1 0	<1
		ppm	ASTM D5185m	>2	0	-	<1
	Titanium	ppm	ASTM D5185m	0	0	0	0
	Silver Aluminum	ppm	ASTM D5185m ASTM D5185m		0	<1 4	<1
		ppm			3		2
	Lead	ppm	ASTM D5185m	>30	2	2	2
	Copper	ppm	ASTM D5185m		0	<1	
	Tin	ppm	ASTM D5185m	>4	0	0	<1
	Vanadium White Metal	ppm	ASTM D5185m *Visual	NONE	0	0 NONE	0 NONE
	Yellow Metal	scalar			NONE		
	reliow wietai	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	17	15	13
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	2	1
	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.3	6.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	18.9	19.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	1	1
	Boron	ppm	ASTM D5185m	316	69	115	90
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m		91	74	62
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	24	120	266	666
	Calcium	ppm	ASTM D5185m		2502	1988	1581
	Phosphorus	ppm	ASTM D5185m		1146	1058	1082
	Zinc	ppm	ASTM D5185m		1410	1281	1314
	Sulfur	ppm	ASTM D5185m		4648	3465	2843
		1.1.					

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 15.7

Base Number (BN) mg KOH/g ASTM D2896 10.1

15.2

8.5

14.5

15.1

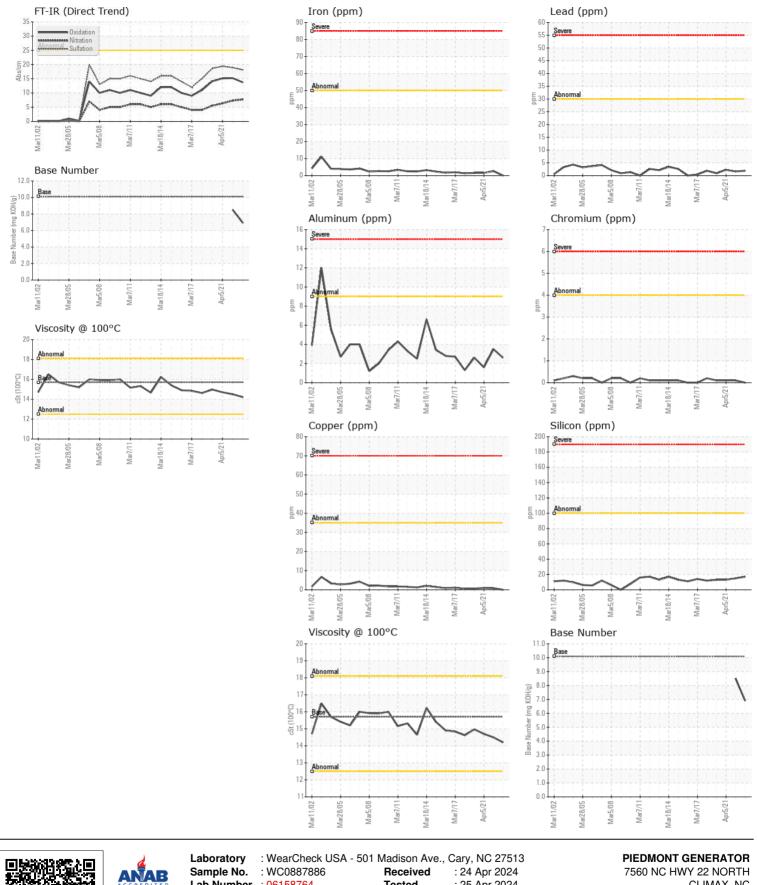
14.7

----

13.7

6.9

14.2



Lab Number : 06158764 CLIMAX, NC Tested : 25 Apr 2024 : 25 Apr 2024 - Wes Davis US 27233 Unique Number : 10994187 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: TERRY SHEPPARD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. terry1pg@bellsouth.net; bill3pg@bellsouth.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)685-4859 F: (336)685-5297 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: TERRY SHEPPARD - PIEJUL Page 2 of 2