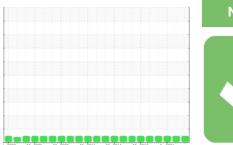


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# **GENERAC 3164472 - BRADFORD DOWNS**

**Natural Gas Engine** 

SHELL ROTELLA T 15W40 (4 QTS)

### Recommendation

Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

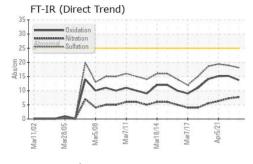
### **Fluid Condition**

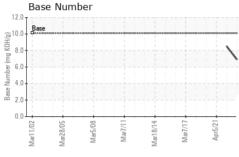
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

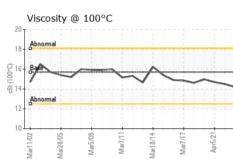
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887886	WC0647401	WC0458272
Sample Date		Client Info		18 Apr 2024	11 Mar 2022	05 Apr 2021
Machine Age	hrs	Client Info		450	418	402
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	3	2
Chromium	ppm	ASTM D5185m	>4	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>9	3	4	2
Lead	ppm	ASTM D5185m	>30	2	2	2
Copper	ppm	ASTM D5185m	>35	0	<1	1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	69	115	90
Barium	ppm	ASTM D5185m	0.0	0	1	0
Molybdenum	ppm	ASTM D5185m	1.2	91	74	62
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	24	120	266	666
Calcium	ppm	ASTM D5185m	2292	2502	1988	1581
Phosphorus	ppm	ASTM D5185m	1064	1146	1058	1082
Zinc	ppm	ASTM D5185m	1160	1410	1281	1314
Sulfur	ppm	ASTM D5185m	4996	4648	3465	2843
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	17	15	13
Sodium	ppm	ASTM D5185m		1	1	1
Potassium	ppm	ASTM D5185m	>20	0	2	1
INFRA-RED		method	limit/base	current	history1	history2
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
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.7	15.2	15.1
Oxidation	7 10 0/11111111			. •		



## **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID FROFER	THES	memou			HISTORY	HISTOLA
Visc @ 100°C	cSt	ASTM D445	15.7	14.2	14.5	14.7

	100	C	CS	l r	49 LIVI D	445 15.7	14.2		14.5		14.	. /
GRA	PHS											
Iron	(ppm	1)					Lead (ppr	n)				
Severe							50 Severe					
Abnom	nal						Abnormal					
0							Abnormal 20					
		tit					10				++++	+
Mar11/02	Mar28/05	Mar5/08	Mar7/11	Mar18/14	Mar7/17-	Apr5/21-	Mar11/02	Mar5/08	Mar7/11-	Mar18/14 -	Mar7/17-	Apr5/21-
				Mari	Ma	Ap				Mar1	Ma	Ap
Alum	inum	(ppm	)				Chromiun	n (ppn	1)			
Severe							Severe					
Abham	nal						Abnormal					
171				$\wedge$			2					
		$\overline{}$		<b>~</b> `	$\overline{}$	~~	0					
Mar11,02	Mar28/05	Mar5/08	Mar7/11	Mar18/14	Mar7/17	Apr5/21	Mar11/02	Mar5/08	Mar7/11	Mar18/14	Mar7/17	Apr5/21
			Σ	Mar	Σ	Ø.			Σ	Mar	Σ	A
Copp	er (p	pm)					Silicon (p	pm)				
)-							150					
Abnom	nal					-1-1-1-1	Abnormal			4		
		444					50					
	-	-			1	1	0	-		-	-	
Mar11/02	Mar28/05	Mar5/08	Mar7/11	Mar18/14	Mar7/17	Apr5/21.	Mar11/02 Mar28/05	Mar5/08	Mar7/11	Mar18/14	Mar7/17	Apr5/21-
		_ @ 100°		Σ			≥ ≥ Base Nun			Σ		
T =			-7-11				12 0	.Dei	77777			
Abnom	ıaı						(a) Hold 10.0 - Base Ho	*************				,
Abnorm	~				$\overline{}$		a 6.0					
Abnom	nal						¥.0					
ببار	Mar28/05	Mar5/08	Mar7/111	Mar18/14	Mar7/17	Apr5/21	Mar11/02	Mar5/08	Mar7/11	Mar18/14	Mar7/17	Apr5/21
Mar11/02		9	5	5	5	150	2 2	8	-	5	5	15





Laboratory

Sample No. : WC0887886 Lab Number : 06158764 Unique Number : 10994187

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

Diagnosed

: 24 Apr 2024 : 25 Apr 2024 : 25 Apr 2024 - Wes Davis PIEDMONT GENERATOR 7560 NC HWY 22 NORTH CLIMAX, NC US 27233

Contact: TERRY SHEPPARD terry1pg@bellsouth.net; bill3pg@bellsouth.net

T: (336)685-4859 F: (336)685-5297

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)