

## Machine Id GENERAC RANDCO OFFICE BUILDING Component Natural Gas Engine Fluid SHELL ROTELLA T 15W40 (5 QTS)

## RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Moderate concentration of visible metal present. All component wear rates are normal.

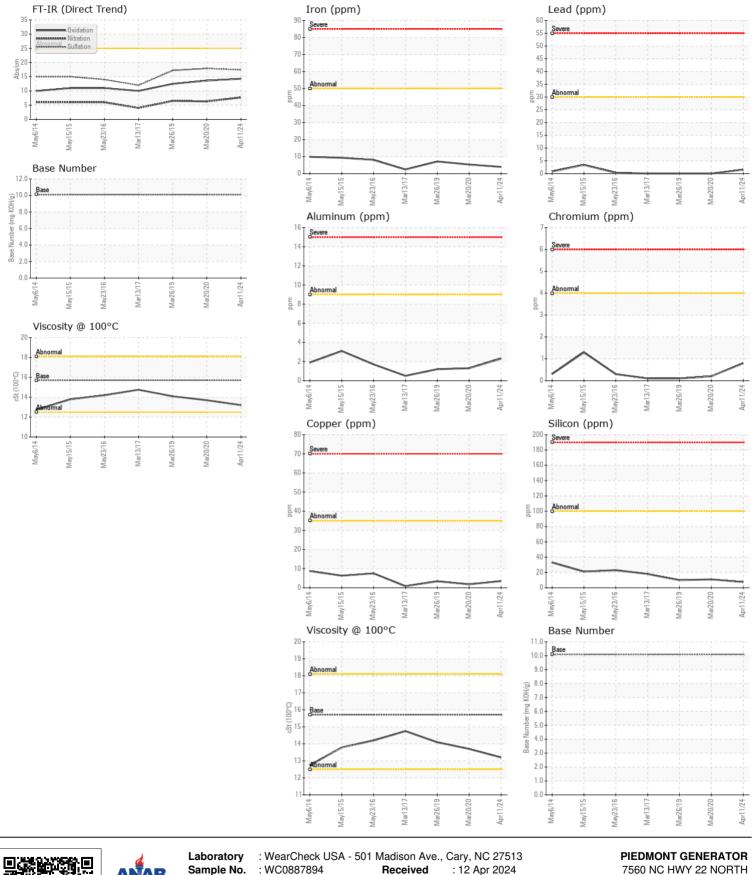
## CONTAMINATION

There is no indication of any contamination in the oil.

<b>FLUI</b>		

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0887894	WC0436227	WC0329400
Sample Date		Client Info		11 Apr 2024	20 Mar 2020	26 Mar 2019
Machine Age	hrs	Client Info		0	150	131
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				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>50	4	5	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	1	1
Lead	ppm	ASTM D5185m	>30	2	0	0
Copper	ppm	ASTM D5185m	>35	4	2	3
Tin	ppm	ASTM D5185m	>4	1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	A MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>+100	7	11	10
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844	0.0	0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	7.7	6.3	6.5
Sulfation Silt	Abs/.1mm	*ASTM D7415	>30 NONE	17.4 NONE	17.9 NONE	17.2 NONE
	scalar	*Visual *Visual	NONE	LIGHT	NONE	NONE
Debris Sand/Dirt	scalar 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
			20.1		NEG	NEG
Sodium	ppm	ASTM D5185m		3	2	2
Boron	ppm	ASTM D5185m	316	103	10	11
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	1.2	81	60	66
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	24	152	916	1087
Calcium	ppm	ASTM D5185m	2292	2097	1091	1251
Phosphorus	ppm	ASTM D5185m	1064	1122	983	1065
Zinc	ppm	ASTM D5185m	1160	1139	1121	1279
Sulfur	ppm	ASTM D5185m	4996	4012	3646	2717
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	13.6	12.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.7		
Visc @ 100°C	cSt	ASTM D445	15.7	13.2	13.7	14.09



Sample No. : WC0887894 Received 7560 NC HWY 22 NORTH : 12 Apr 2024 Lab Number : 06146933 Tested : 15 Apr 2024 CLIMAX, NC : 15 Apr 2024 - Sean Felton US 27233 Unique Number : 10977011 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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)685-5297

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