

Machine Id GENERAC SIMPSONVILLE FD Component Diesel Engine Fluid

SHELL ROTELLA T 15W40 (3 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The effective states the time of some line has been noted. Descendent	Sample Number		Client Info		WC0887876	WC0458245	WC0545196
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Date		Client Info		05 Apr 2024	03 May 2021	24 Mar 2021
	Machine Age	hrs	Client Info		463	0	401
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				MARGINAL	MARGINAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>100	2	<1	1
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
	Lead	ppm	ASTM D5185m	>40	2	1	1
	Copper	ppm	ASTM D5185m		<1	0	<1
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	0	3
	Potassium	ppm	ASTM D5185m	>20	2	2	<1
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>5	4 .4	A 3.4	9 .2
the on.	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.2	5.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.3	18.9	18.9
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	<1
The DN second is directed that there is no during the direction in the	Boron	ppm	ASTM D5185m	316	102	78	58
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	0.0	<1	0	0
	Molybdenum	ppm	ASTM D5185m	1.2	79	66	51
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	24	76	283	654
	Calcium	ppm	ASTM D5185m	2292	1941	1778	1183
	Phosphorus	ppm	ASTM D5185m	1064	1031	1027	927
	Zinc	ppm	ASTM D5185m	1160	1043	1192	1100
	Culture.		AOTH DELOF	4000	0010	0070	0000

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4996

ASTM D445 15.7

Abs/.1mm *ASTM D7414 >25

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

3073

14.5

13.2

2633

14.8

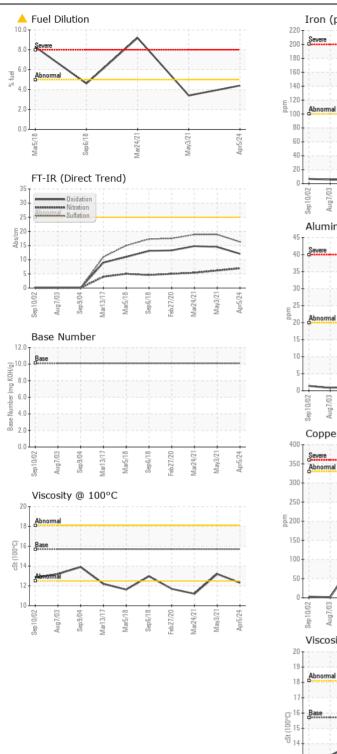
11.2

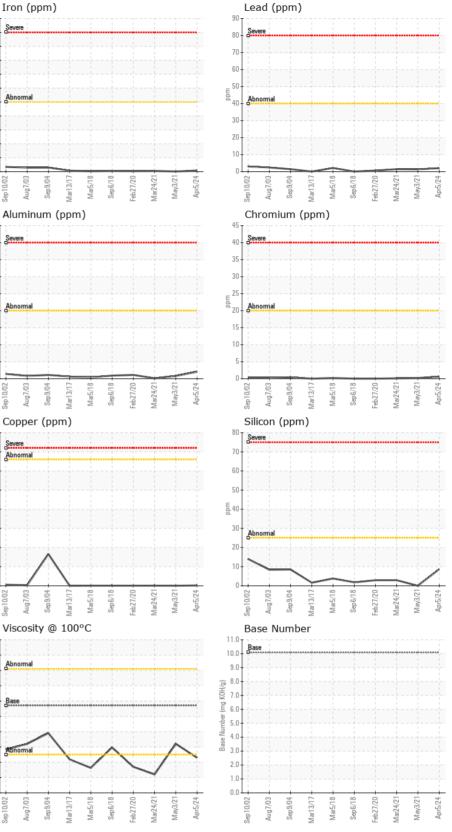
3916

12.1

7.0

12.3





PIEDMONT GENERATOR Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0887876 7560 NC HWY 22 NORTH Received : 12 Apr 2024 : 06146935 CLIMAX, NC Lab Number Tested : 17 Apr 2024 US 27233 Unique Number : 10977013 Diagnosed : 17 Apr 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: TERRY SHEPPARD Certificate L2367 terry1pg@bellsouth.net; bill3pg@bellsouth.net 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. T: (336)685-4859 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)685-5297

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