

Machine Id **TURNPIKE INDUSTRIAL NSC TURNPIKE IND** Component **Propane Engine** Fluid SHFLL ROTELLA T 15W40 (4 QTS)

SHELL ROTELLA T 15W40 (4 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0887897	WC0628396	WCM1395128
	Sample Date		Client Info		18 Apr 2024	10 Mar 2022	14 Mar 2018
	Machine Age	hrs	Client Info		414	383	325
	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
WEAR	Iron	ppm	ASTM D5185m	>100	<1	2	2
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>25	0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>5	0	<1	0
	Aluminum	ppm	ASTM D5185m	>20	1	2	1
	Lead	ppm	ASTM D5185m	>25	0	0	2
	Copper	ppm	ASTM D5185m	>35	0	<1	<1
	Tin	ppm	ASTM D5185m	>8	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u> 50</u>	2	4	3
CONTAMINATION	Potassium		ASTM D5185m		2 <1	2	8
There is no indication of any contamination in the oil.	Water	ppm	WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	20.1	0	0	0
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.5	5.
	Sulfation	Abs/.1mm	*ASTM D7415		17.5	18.5	15.
	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
	Sodium		ACTM DE10Em		4	0	1
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	316	1 65	2 97	21
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	97 <1	0
	Molybdenum	ppm ppm	ASTM D5185m		85	74	59
	Manganese	ppm	ASTM D5185m	1.2	0 0	0	<1
	Magnesium	ppm	ASTM D5185m	24	143	275	817
	Calcium	ppm	ASTM D5185m		2368	1886	1074
	Phosphorus	ppm	ASTM D5185m		1105	1036	949
	Zinc	ppm	ASTM D5185m		1361	1245	1087
	Sulfur	ppm	ASTM D5185m		4618	3594	2549
	Oxidation	Abs/.1mm			13.0	14.4	12.
				~LJ	15.0	17.4	16.

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

ASTM D445 15.7

Visc @ 100°C cSt

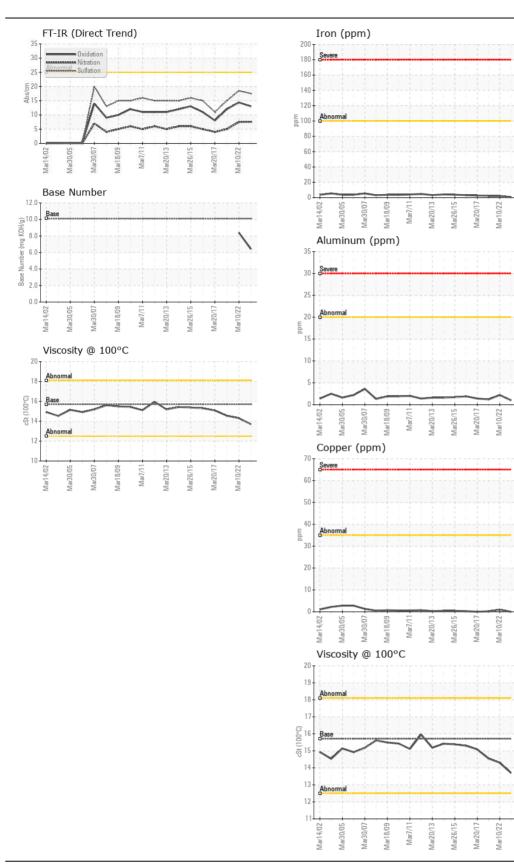
8.4

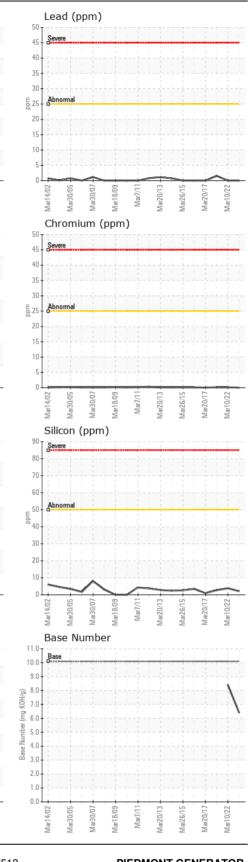
14.3

14.55

6.4

13.7





PIEDMONT GENERATOR Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0887897 7560 NC HWY 22 NORTH Received : 24 Apr 2024 Lab Number : 06158762 CLIMAX, NC Tested : 25 Apr 2024 : 25 Apr 2024 - Wes Davis US 27233 Unique Number : 10994185 Diagnosed Test Package : MOB 1 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)

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