



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**GENERAC HOLLY RIDGE LINKS**  
 Component  
**Propane Engine**  
 Fluid  
**SHELL ROTELLA T 15W40 (4 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0887892</b>	WC0628400	WC0545210
Sample Date		Client Info		<b>10 Apr 2024</b>	11 Mar 2022	05 Apr 2021
Machine Age	hrs	Client Info		<b>446</b>	413	399
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>3</b>	5	2
Chromium	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	2	2
Lead	ppm	ASTM D5185m	>25	<b>3</b>	<1	2
Copper	ppm	ASTM D5185m	>35	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m	>8	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

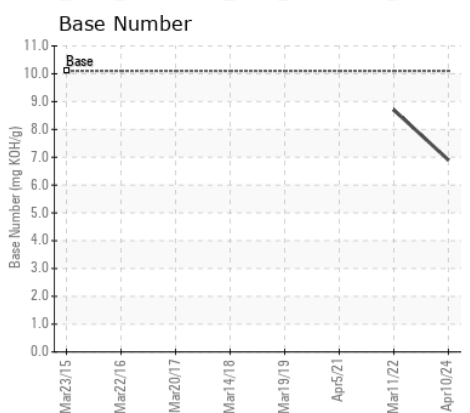
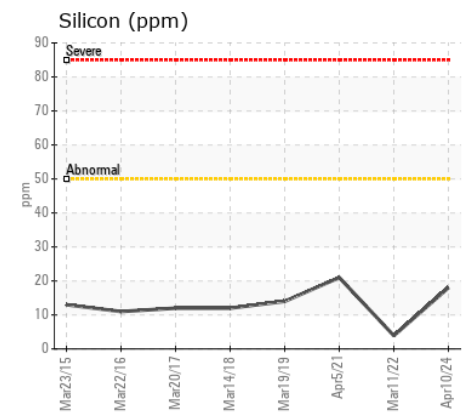
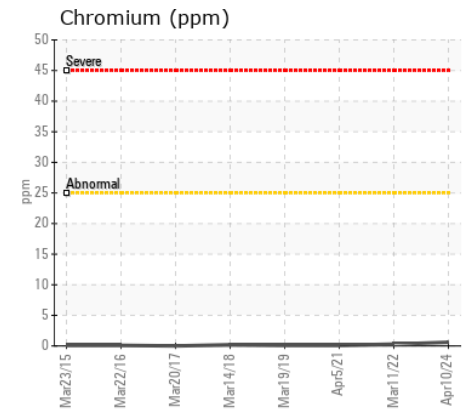
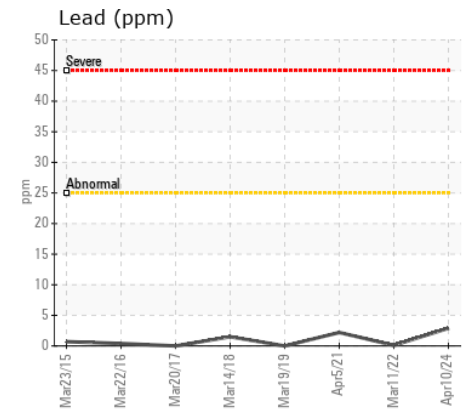
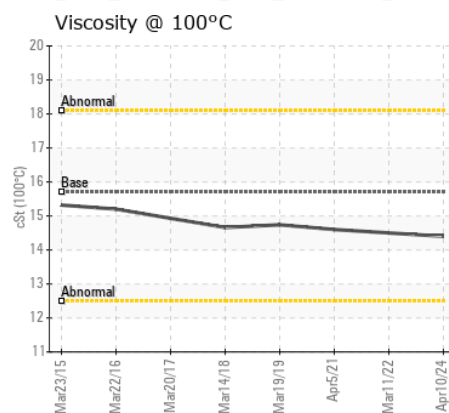
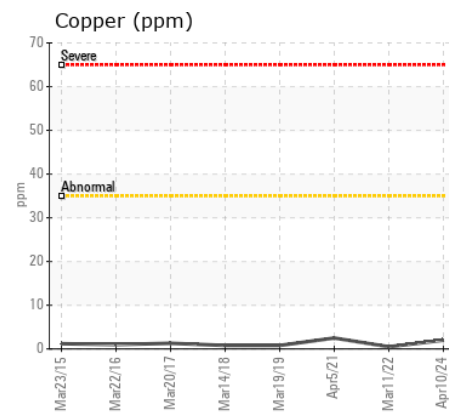
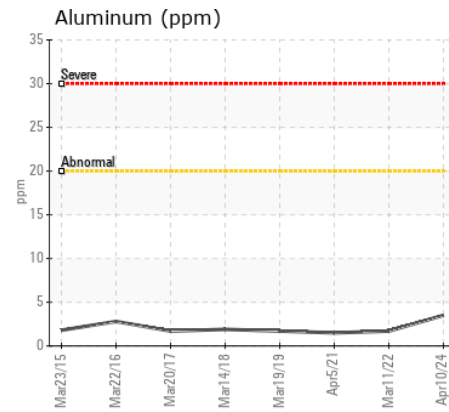
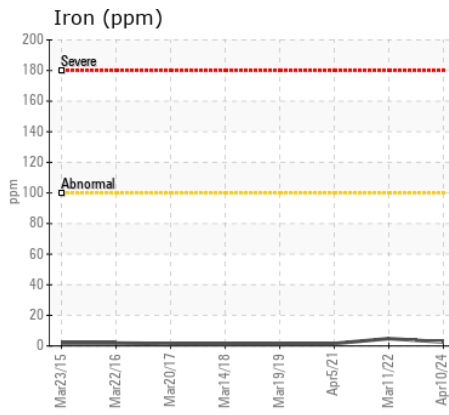
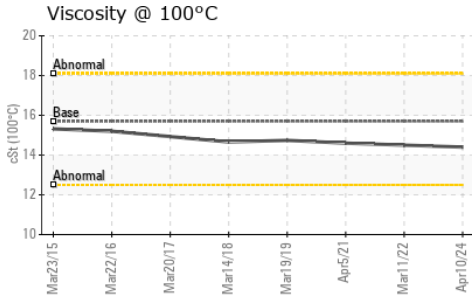
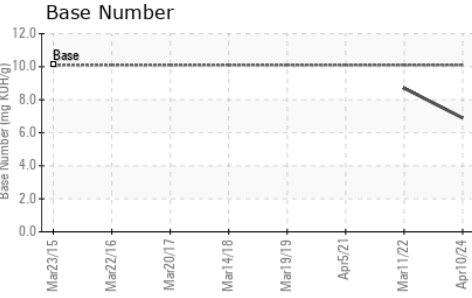
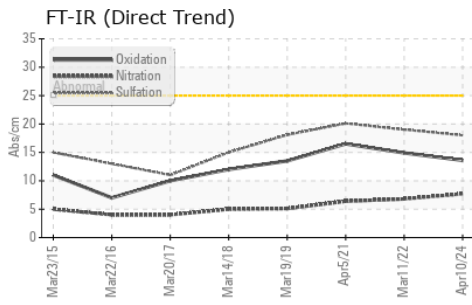
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>18</b>	4	21
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.7</b>	6.8	6.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.0</b>	19.0	20.1
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	1
Boron	ppm	ASTM D5185m	316	<b>80</b>	110	15
Barium	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m	1.2	<b>87</b>	70	62
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	24	<b>135</b>	385	963
Calcium	ppm	ASTM D5185m	2292	<b>2147</b>	1811	1173
Phosphorus	ppm	ASTM D5185m	1064	<b>1086</b>	1073	1046
Zinc	ppm	ASTM D5185m	1160	<b>1143</b>	1288	1266
Sulfur	ppm	ASTM D5185m	4996	<b>3769</b>	3445	2975
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.6</b>	14.9	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	<b>6.9</b>	8.7	---
Visc @ 100°C	cSt	ASTM D445	15.7	<b>14.4</b>	14.5	14.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0887892  
**Lab Number** : 06146929  
**Unique Number** : 10977007  
**Test Package** : MOB 1

**Received** : 12 Apr 2024  
**Tested** : 15 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Wes Davis

**PIEDMONT GENERATOR**  
 7560 NC HWY 22 NORTH  
 CLIMAX, NC  
 US 27233

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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)

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