



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GENERAC NELSON HARTE
 Component
Natural Gas Engine
 Fluid
SHELL ROTELLA T 15W40 (5 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0887869	WCM1383448	WCM1314068
Sample Date		Client Info		08 Apr 2024	14 Nov 2017	24 Sep 2014
Machine Age	hrs	Client Info		0	277	234
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	10	2	7
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>9	3	<1	1
Lead	ppm	ASTM D5185m	>30	6	6	9
Copper	ppm	ASTM D5185m	>35	5	2	9
Tin	ppm	ASTM D5185m	>4	3	<1	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

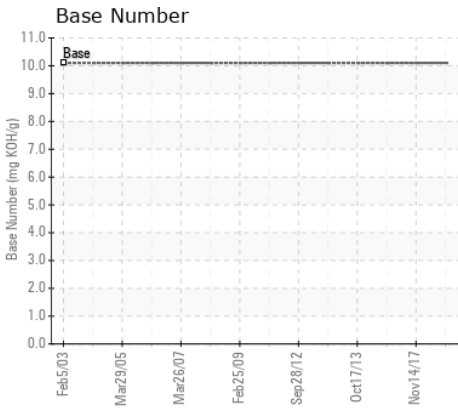
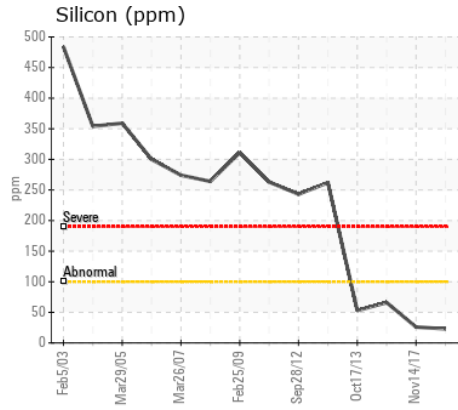
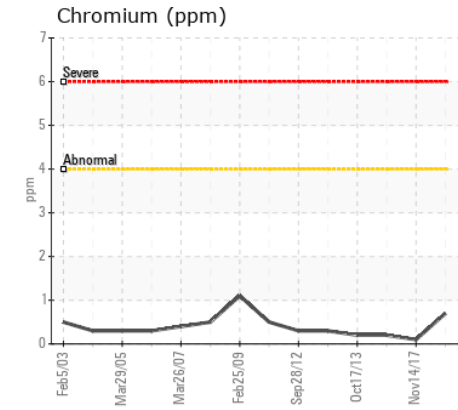
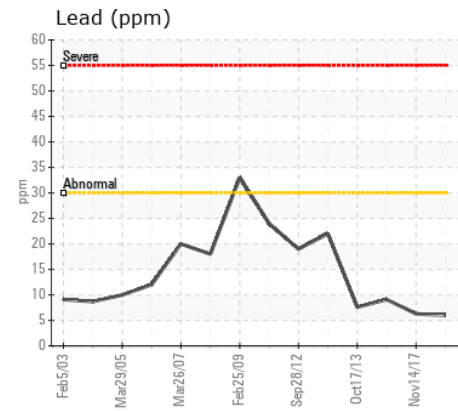
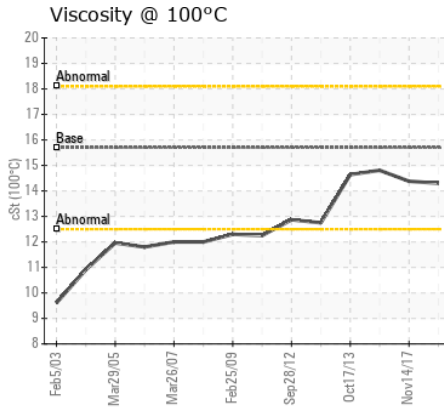
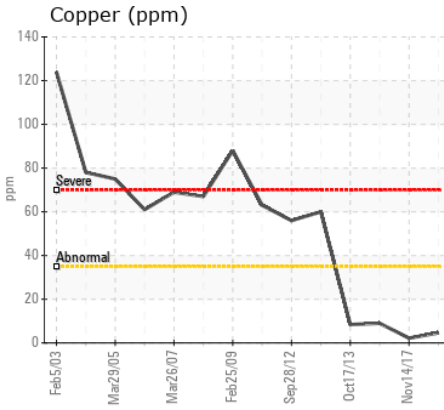
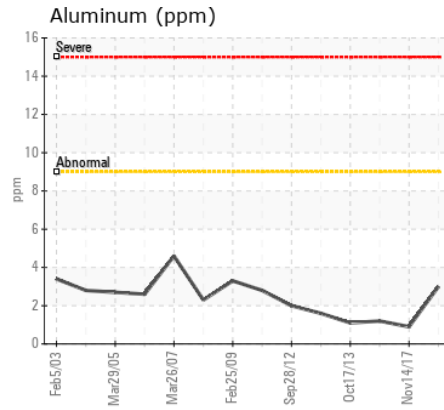
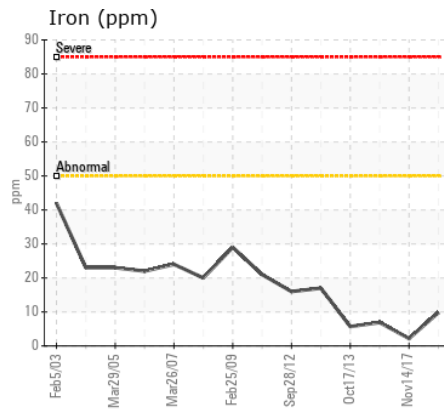
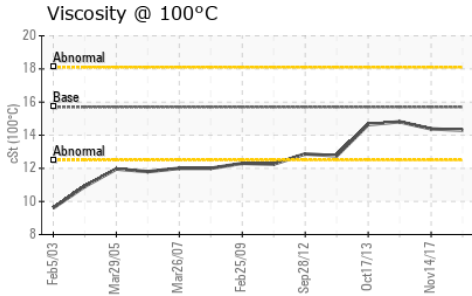
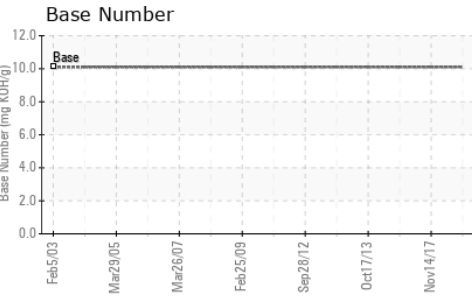
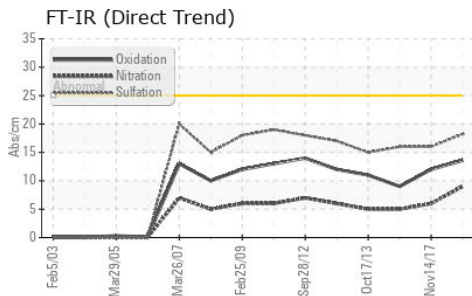
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	23	26	66
Potassium	ppm	ASTM D5185m	>20	2	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.0	6.	5.
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.2	16.	16.
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

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		2	3	4
Boron	ppm	ASTM D5185m	316	82	12	8
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	1.2	90	60	41
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	24	73	946	822
Calcium	ppm	ASTM D5185m	2292	2250	1156	1351
Phosphorus	ppm	ASTM D5185m	1064	1095	923	1081
Zinc	ppm	ASTM D5185m	1160	1186	1097	1189
Sulfur	ppm	ASTM D5185m	4996	3906	2961	4276
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	12.	9.
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	6.5	---	---
Visc @ 100°C	cSt	ASTM D445	15.7	14.3	14.38	14.81



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0887869 **Received** : 12 Apr 2024
Lab Number : 06146927 **Tested** : 15 Apr 2024
Unique Number : 10977005 **Diagnosed** : 15 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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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