

### **OIL ANALYSIS REPORT**

# [W116499] GENERAC RALEIGH 222 UNIT A

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (6 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

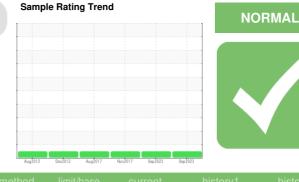
Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the oil.

#### **Fluid Condition**

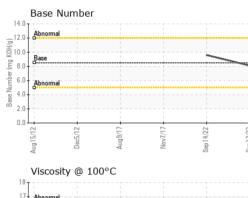
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

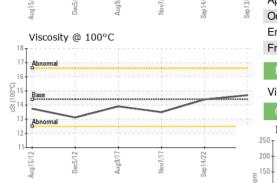


SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0753128	WC0682954	WCM1369588
Sample Date		Client Info		13 Sep 2023	14 Sep 2022	07 Nov 2017
Machine Age	hrs	Client Info		510	0	382
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm		>100	<1	2	2
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm		>4	0	0	0
Titanium	ppm	ASTM D5185m		6	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	<1
Lead	ppm	ASTM D5185m	>40	1	1	3
Copper	ppm	ASTM D5185m		1	2	3
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	92	83	25
Barium	ppm	ASTM D5185m	10	0	1	0
Molybdenum	ppm	ASTM D5185m	100	83	57	3
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	80	283	206
Calcium	ppm	ASTM D5185m	3000	2120	1863	2347
Phosphorus	ppm	ASTM D5185m	1150	1101	1075	906
Zinc	ppm	ASTM D5185m	1350	1290	1195	1109
Sulfur	ppm	ASTM D5185m	4250	4246	4503	3657
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	3
Sodium	ppm	ASTM D5185m	>158	<1	0	4
Potassium	ppm	ASTM D5185m	>20	1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	7.3	7.6	6.
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	19.2	17.
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	14.4	13.
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.1	9.6	



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

Laboratory

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