

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

# GENERAC 214

Component Natural Gas Engine

ROYAL PURPLE MOTOR OIL 15W40 (6 QTS)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0033655	RP0005641	RP164881
Sample Date		Client Info		28 Aug 2023	24 Jun 2020	18 Jun 2019
Machine Age	hrs	Client Info		1857	1382	1155
Oil Age	hrs	Client Info		40	19	18
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	2	3
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	3	3
Lead	ppm	ASTM D5185m	>30	2	0	3
Copper	ppm	ASTM D5185m	>35	4	<1	4
Tin	ppm	ASTM D5185m	>4	0	0	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	100	101	95	110
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	60	17	13	9
Calcium	ppm	ASTM D5185m	3050	3340	2737	3260
Phosphorus	ppm	ASTM D5185m	1050	1129	877	1033
Zinc	ppm	ASTM D5185m	1200	1355	960	1122
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	17	11	26
Sodium	ppm	ASTM D5185m		5	4	4
Potassium	ppm	ASTM D5185m	>20	3	1	1
Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	6.6	4.9	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	25.9	24.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	17	15.8
Acid Number (AN)	mg KOH/a	ASTM D8045	-	1.51	1.80	2.55
Base Number (BN)	mg KOH/a	ASTM D2896	10.5	11.81	10.7	
	0 - 0					



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