

## **OIL ANALYSIS REPORT**

### Area [134415] **RED VENTURES/RV4-7 UNIT B** Component

**Diesel Engine** 

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### 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.



Jan2021 Jan2022 Mar2023 Mar2024							
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0770516	WC0467229	WC0616178	
Sample Date		Client Info		04 Mar 2024	27 Mar 2023	31 Jan 2022	
Machine Age	hrs	Client Info		96	95	91	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION		method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	<1	1	2	
Chromium	ppm	ASTM D5185m	>20	<1	0	0	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	2	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	1	0	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	0	
Antimony	ppm	ASTM D5185m				<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	15	107	104	
Barium	ppm	ASTM D5185m	10	0	0	0	
Molybdenum	ppm	ASTM D5185m	100	53	2	3	
Manganese	ppm	ASTM D5185m		<1	0	<1	
Magnesium	ppm	ASTM D5185m	450	875	599	705	
Calcium	ppm	ASTM D5185m	3000	1068	1165	1308	
Phosphorus	ppm	ASTM D5185m	1150	991	932	977	
Zinc	ppm	ASTM D5185m	1350	1189	1044	1115	
Sulfur	ppm	ASTM D5185m	4250	3502	3487	3153	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	3	4	
Sodium	ppm	ASTM D5185m	>158	<1	0	3	
Potassium	ppm	ASTM D5185m	>20	0	3	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0	0.1	0	
Nitration	Abs/cm	*ASTM D7624	>20	4.7	5.9	6.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.5	19.7	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
FLUID DEGRADA Oxidation	Abs/.1mm	method *ASTM D7414	limit/base >25	current 12.8	history1 11.7	history2 12.7	

Base Number (BN) mg KOH/g ASTM D2896 8.5

Contact/Location: BRANDON RICE - NATRAL

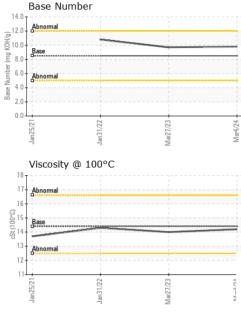
9.7

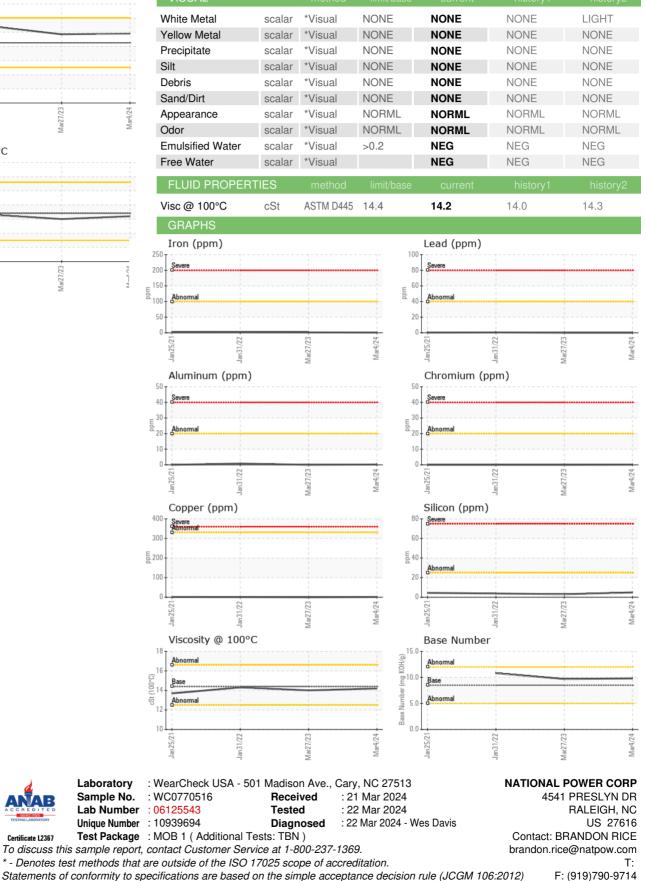
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10.8



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Certificate L2367

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