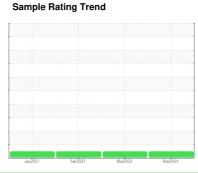


OIL ANALYSIS REPORT

Area [134443] RED VENTURES/RV4-ACD4 UNIT A

Diesel Engine

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





Recommendation

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

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

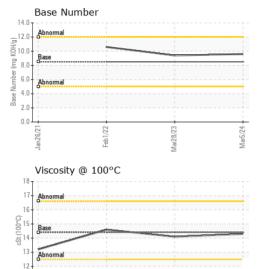
Fluid Condition

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

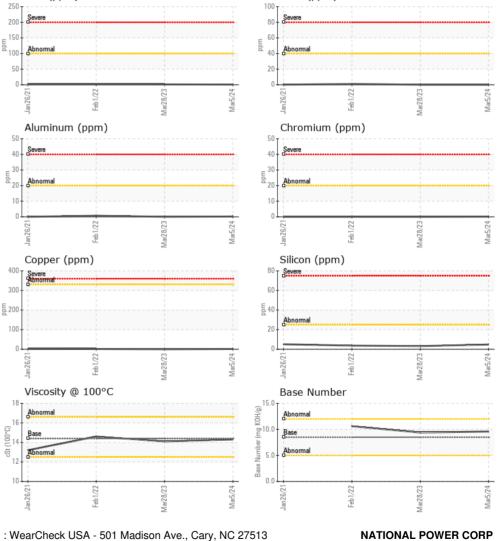
		Jan 202	1 Feb 2022	Marž023 N	1ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0797293	WC0770438	WC0616171
Sample Date		Client Info		05 Mar 2024	28 Mar 2023	01 Feb 2022
Machine Age	hrs	Client Info		104	102	97
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method	7 U.L	NEG	NEG	NEG
WEAR METALS			limit/bass			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<1	1	2
Chromium	ppm	ASTM D5185m		<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	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	12	109	100
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	902	621	691
Calcium	ppm	ASTM D5185m	3000	1030	1223	1285
Phosphorus	ppm	ASTM D5185m	1150	1011	952	924
Zinc	ppm	ASTM D5185m	1350	1180	1099	1067
Sulfur	ppm	ASTM D5185m	4250	3531	3724	3017
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	3	4
Sodium	ppm	ASTM D5185m	>158	<1	0	2
Potassium	ppm	ASTM D5185m	>20	0	4	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	4.6	5.9	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	18.5	20.4
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	11.6	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.6	9.4	10.6
Dase Mulliber (DIN)	my NOTI/9	AOTIVI DZ030	0.0	3.0	3.4	10.0



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.3	14.1	14.6
GRAPHS						
Iron (ppm)			100	Lead (ppm)		
Severe			100	Severe		
50-						
Abnormal		 	E 00	Abnormal		
50			20) -		







Laboratory Sample No.

Lab Number : 06125554 Unique Number : 10939705 Test Package : MOB 1 (Additional Tests: TBN)

: WC0797293

Received **Tested**

: 21 Mar 2024 : 22 Mar 2024

Diagnosed : 22 Mar 2024 - Wes Davis

Contact: BRANDON RICE brandon.rice@natpow.com

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)

F: (919)790-9714

Report Id: NATRAL [WUSCAR] 06125554 (Generated: 03/22/2024 15:39:26) Rev: 1

Contact/Location: BRANDON RICE - NATRAL

4541 PRESLYN DR

RALEIGH, NC

US 27616

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