

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id IAD2-B-GEN-01

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

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.

				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number	,,, (11011	Client Info	mmesacc	WC0931663		
Sample Date		Client Info		07 May 2024		
Machine Age	hrs	Client Info		409		
Oil Age	hrs	Client Info		0		
Oil Changed	0	Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	1		
Lead	ppm	ASTM D5185m	>40	4		
Copper	ppm	ASTM D5185m	>330	3		
Tin	ppm	ASTM D5185m	>15	3		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	45		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	36		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	450	602		
Calcium	ppm	ASTM D5185m	3000	1632		
Phosphorus	ppm	ASTM D5185m	1150	928		
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	1073 3494		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>158	5 1		
	ppm		>20			
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	8.1		
Sulfation	Abs/.1mm		>30	20.8		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2		
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.4		



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Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0931663 Lab Number : 06193842 Unique Number : 11055965

Received **Tested**

: 29 May 2024 : 30 May 2024 Diagnosed

: 30 May 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: TBN)

RALEIGH, NC US 27616 Contact: Brandon Daniels Brandon.Daniels@natpow.com

NATIONAL POWER CORP

4541 PRESLYN DR

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)

Contact/Location: Brandon Daniels - NATRAL

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