

## **OIL ANALYSIS REPORT**

### Sample Rating Trend



### NORMAL



Machine Id

# **PINEHURST HEALTH**

**Diesel Engine** 

Fluid

SHELL 15W40 (5 GAL)

		IS	

#### Recommendation

No corrective action is recommended at this time. 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

Fuel content negligible. There is no indication of any contamination in the oil.

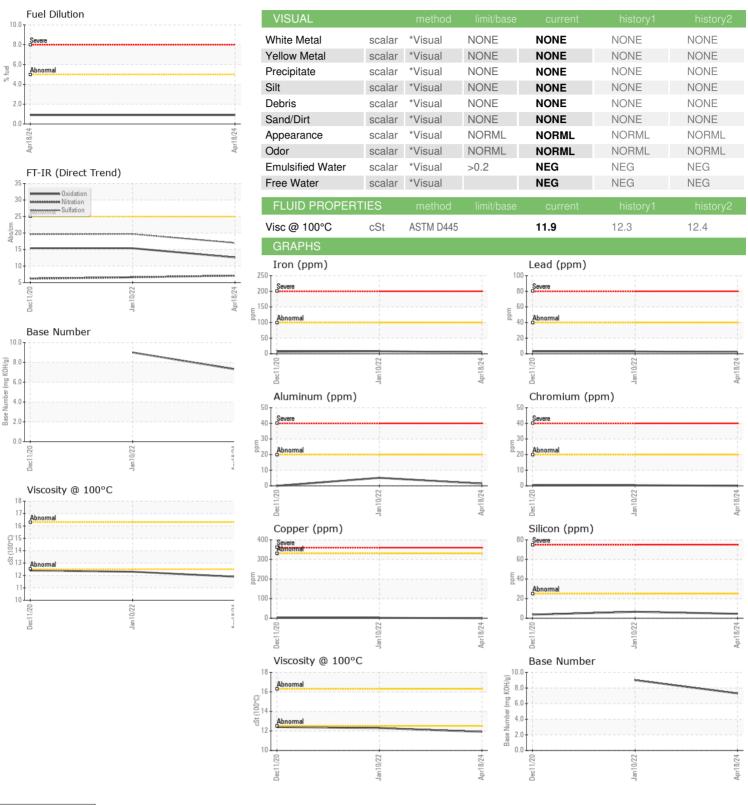
#### **Fluid Condition**

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

	0m2020 Jan2022 Apr2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0858826	WC0528804	WC0508960	
Sample Date		Client Info		18 Apr 2024	10 Jan 2022	11 Dec 2020	
Machine Age	hrs	Client Info		1442	1257	1218	
Oil Age	hrs	Client Info		185	39	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2	
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	5	8	7	
Chromium	ppm	ASTM D5185m	>20	0	<1	<1	
Nickel	ppm	ASTM D5185m		0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	0	
Aluminum	ppm	ASTM D5185m		1	5	0	
Lead	ppm	ASTM D5185m	>40	2	3	3	
Copper	ppm	ASTM D5185m		- <1	2	2	
Tin	ppm	ASTM D5185m	>15	<1	2	2	
Antimony	ppm	ASTM D5185m	710		0	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	<1	<1	
	PP						
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		89	112	118	
Barium	ppm	ASTM D5185m		0	0	0	
Molybdenum	ppm	ASTM D5185m		89	56	25	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m		133	198	129	
Calcium	ppm	ASTM D5185m		2240	2200	2150	
Phosphorus	ppm	ASTM D5185m		964	1075	946	
Zinc	ppm	ASTM D5185m		1211	1125	1045	
Sulfur	ppm	ASTM D5185m		4484	3232	3035	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	7	4	
Sodium	ppm	ASTM D5185m	>150	2	2	2	
Potassium	ppm	ASTM D5185m	>20	0	3	6	
Fuel	%	ASTM D3524	>5	0.9	<1.0	<1.0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	7.1	6.6	6.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	19.7	19.6	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	15.4	15.4	
Base Number (BN)	mg KOH/g	ASTM D2896		7.3	9.0		



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06159649 Unique Number : 10995072

: WC0858826

Received : 24 Apr 2024 **Tested** : 29 Apr 2024 Diagnosed : 29 Apr 2024 - Wes Davis Test Package : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

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.

Contact: RYAN BAILEY ryan.bailey@bittingelectric.com T: (919)467-9417

**ALTERNATIVE POWER** 

1000 NORTHGATE CT

MORRISVILLE, NC

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: BITCAR [WUSCAR] 06159649 (Generated: 04/29/2024 09:24:57) Rev: 1

Submitted By: ROBERT MCARTHUR

US 27560