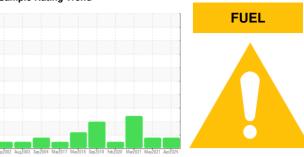


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

GENERAC SIMPSONVILLE FD

Diesel Engine

SHELL ROTELLA T 15W40 (3 QTS)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

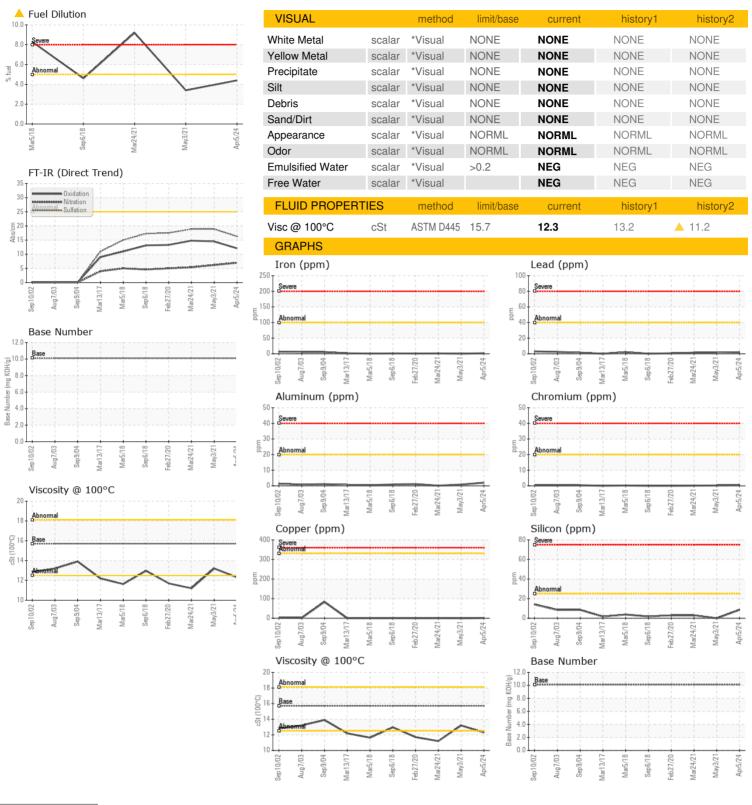
Fluid Condition

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

		Sep2002 Aug2	003 Sep2004 Mar2017 Mar2	018 Sep2018 Feb2020 Mar2021 Ma	Ž021 AprŽ024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887876	WC0458245	WC0545196
Sample Date		Client Info		05 Apr 2024	03 May 2021	24 Mar 2021
Machine Age	hrs	Client Info		463	0	401
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				MARGINAL	MARGINAL	SEVERE
CONTAMINATIO	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	2	<1	1
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	2	<1	<1
Lead	ppm	ASTM D5185m	>40	2	1	1
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Antimony	ppm	ASTM D5185m			1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	316	102	78	58
Barium	ppm	ASTM D5185m	0.0	<1	0	0
Molybdenum	ppm	ASTM D5185m	1.2	79	66	51
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	24	76	283	654
Calcium	ppm	ASTM D5185m	2292	1941	1778	1183
Phosphorus	ppm	ASTM D5185m	1064	1031	1027	927
Zinc	ppm	ASTM D5185m	1160	1043	1192	1100
Sulfur	ppm	ASTM D5185m	4996	3916	3073	2633
CONTAMINANTS	1	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	0	3
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Fuel	%	ASTM D3524	>5	4.4	▲ 3.4	▲ 9.2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.0	6.2	5.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.3	18.9	18.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.1	14.5	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	7.0		
(-/-/	9					



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0887876 Lab Number : 06146935

Unique Number : 10977013

Received : 12 Apr 2024 Tested Diagnosed

: 17 Apr 2024 : 17 Apr 2024 - Wes Davis Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

7560 NC HWY 22 NORTH CLIMAX, NC US 27233 Contact: TERRY SHEPPARD

PIEDMONT GENERATOR

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. terry1pg@bellsouth.net; bill3pg@bellsouth.net T: (336)685-4859 F: (336)685-5297

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: PIEJUL [WUSCAR] 06146935 (Generated: 04/25/2024 14:17:04) Rev: 1

Contact/Location: TERRY SHEPPARD - PIEJUL