



FUEL REPORT

Sample Rating Trend



WATER



Machine Id
VOLVO ECR88D 8ME0199
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

▲ Recommendation

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend you service and check the fuel filters for mucous-like deposits. Check with fuel supplier for biocides available to destroy the microorganisms in the fuel system.

Corrosion

All metal levels are normal indicating no corrosion in the system.

▲ Contaminants

There is a high amount of particulates present in the fuel. Free water present. Moderate concentration of visible dirt/debris present in the fuel. There is a light concentration of Bacteria, Yeast and/or Fungus present in the sample.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		AOL06209096	---	---
Sample Date	Client Info		07 Jun 2024	---	---
Machine Age	hrs	Client Info	1500	---	---
Sample Status			SEVERE	---	---

PHYSICAL PROPERTIES

	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500	L3.5	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.76	---

SULFUR CONTENT

	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	---
Sulfur (UVF)	ppm	ASTM D5453		8	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1	---
Sodium	ppm	ASTM D5185m	<0.1	2	---
Potassium	ppm	ASTM D5185m	<0.1	2	---
Water	%	ASTM D6304	<0.05	0.005	---
ppm Water	ppm	ASTM D6304	<500	59	---
% Gasoline	%	*In-House	<0.50	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	---



MICROBIAL

	method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	0	---
Yeast	CFU/ml	WC-Method	>=100000	▲ 10	---
Mold	Colonies	WC-Method	MODER	---	---

HEAVY METALS

	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	---
Nickel	ppm	ASTM D5185m	<0.1	<1	---
Lead	ppm	ASTM D5185m	<0.1	0	---
Vanadium	ppm	ASTM D5185m	<0.1	0	---
Iron	ppm	ASTM D5185m	<0.1	0	---
Calcium	ppm	ASTM D5185m	<0.1	0	---
Magnesium	ppm	ASTM D5185m	<0.1	0	---
Phosphorus	ppm	ASTM D5185m	<0.1	0	---
Zinc	ppm	ASTM D5185m	<0.1	<1	---

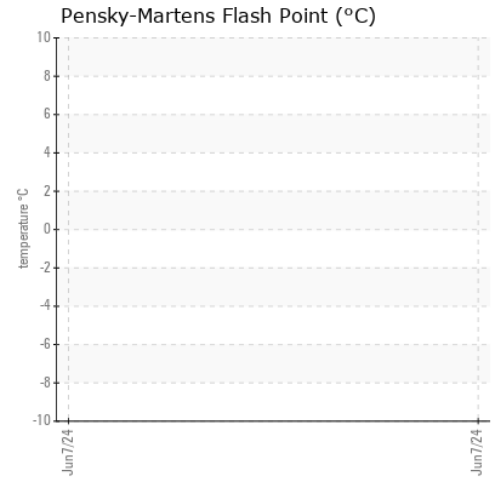
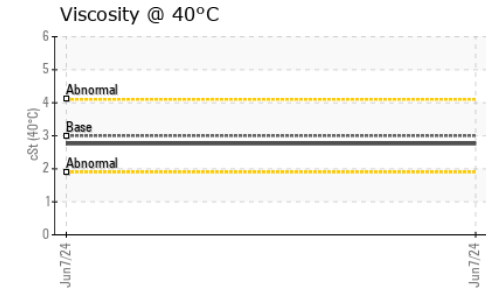
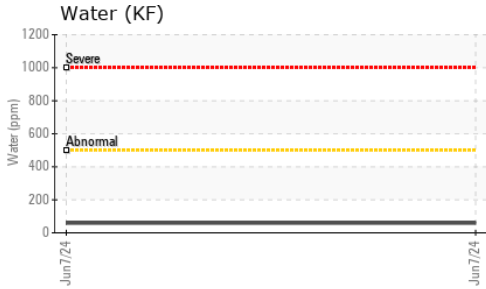
SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



FUEL REPORT

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AOL06209096 **Received** : 13 Jun 2024
Lab Number : 06209096 **Tested** : 21 Jun 2024
Unique Number : 11076557 **Diagnosed** : 21 Jun 2024 - Doug Bogart
Test Package : DF-5 (Additional Tests: Bacteria, Screen)
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)

APEX OIL LAB
 3956 44th STREET SE
 GRAND RAPIDS, MI
 US 49512
 Contact: JASON RAINEY
 jrainey@apexoillab.com
 T: (616)328-6672
 F: (616)828-1791