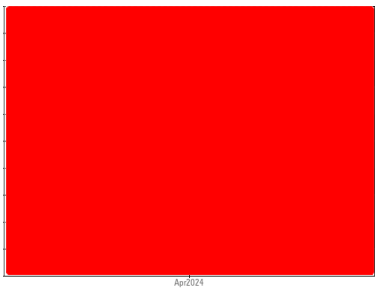
FUEL REPORT

Sample Rating Trend



CONTAMINANT

Machine Id
VOLVO 233175
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation
Recommend drain fuel if not already done and flush before refilling with fuel.

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

Contaminants
There is a high amount of particulates present in the fuel. There is a high amount of gasoline present in the fuel. There is a light concentration of water present in the fuel.

Fuel Condition
The fuel viscosity is lower than normal. Gasoline present in the fuel is lowering the viscosity. The fuel is no longer serviceable due to the presence of contaminants. 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		**RY0123483**	---	---
Sample Date		Client Info		**09 Apr 2024**	---	---
Machine Age	mls	Client Info		**0**	---	---
Sample Status				**SEVERE**	---	---

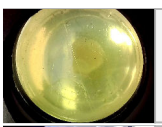
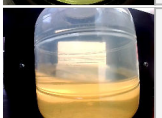
PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		**L3.0**	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	▲ **1.01**	---	---

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	**3**	---	---
Potassium	ppm	ASTM D5185m	<0.1	**0**	---	---
Water	%	ASTM D6304	<0.05	▲ **0.094**	---	---
ppm Water	ppm	ASTM D6304	<500	▲ **948**	---	---
% Gasoline	%	*In-House	<0.50	▲ **42.1**	---	---
% Biodiesel	%	*In-House	<20.0	**2.7**	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **43892**	---	---
Particles >6µm		ASTM D7647	>640	▲ **20840**	---	---
Particles >14µm		ASTM D7647	>80	▲ **3382**	---	---
Particles >21µm		ASTM D7647	>20	▲ **876**	---	---
Particles >38µm		ASTM D7647	>4	▲ **11**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **23/22/19**	---	---

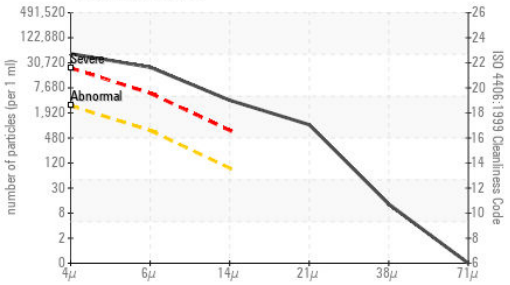
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	**0**	---	---
Nickel	ppm	ASTM D5185m	<0.1	**<1**	---	---
Lead	ppm	ASTM D5185m	<0.1	**0**	---	---
Vanadium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Iron	ppm	ASTM D5185m	<0.1	**0**	---	---
Calcium	ppm	ASTM D5185m	<0.1	**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

SAMPLE IMAGES				current	history1	history2
Color					*no image*	*no image*
Bottom					*no image*	*no image*

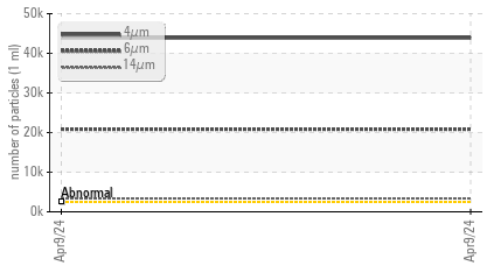
FUEL REPORT

GRAPHS

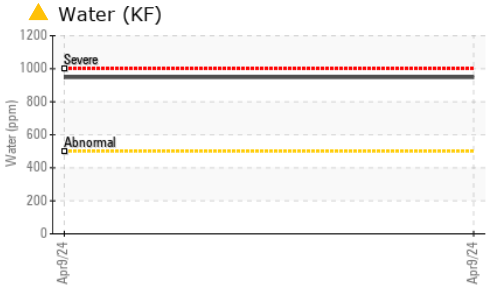
Particle Count



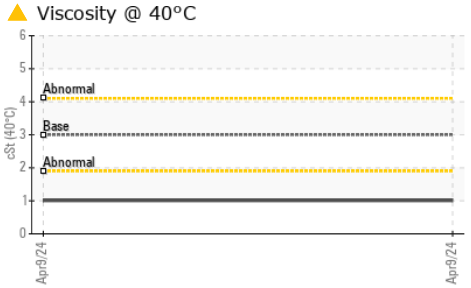
Particle Trend



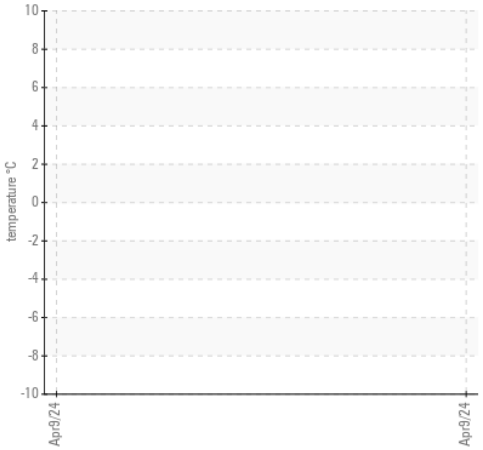
Water (KF)



Viscosity @ 40°C



Pensky-Martens Flash Point (°C)



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RY0123483
Lab Number : 06145505
Unique Number : 10970313
Test Package : DF-5 (Additional Tests: PercentFuel, Screen)

Received : 10 Apr 2024
Tested : 05 May 2024
Diagnosed : 05 May 2024 - Doug Bogart

Certificate L2367

Ryder Transportation Services
902 ROUTE 83
BENSENVILLE, IL
US 60106
Contact: MARK HELDT
T: (630)595-6565
F: (630)595-6069

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)