Dura-Check Fluid Analysis

FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
FUEL CONDITION	NORMAL

Area
[PMOAS3114911]
Machine Id
350RE02JB SGM32C427 - HCPMOAS 3114911
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

CORROSION

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

CONTAMINANTS

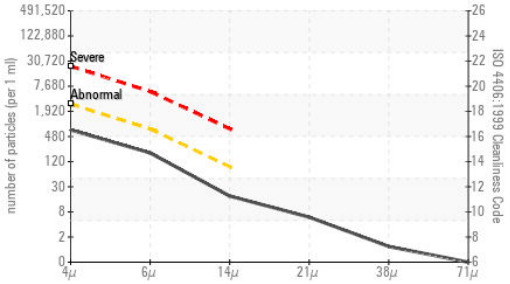
Light concentration of visible dirt/debris present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. The amount and size of particulates present in the system are acceptable.

FUEL CONDITION

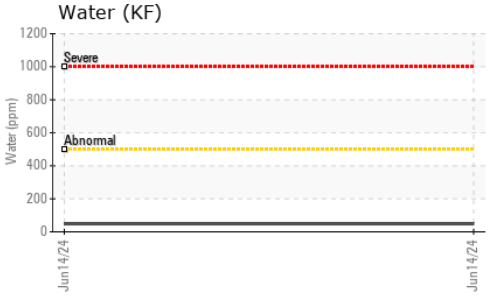
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0037841	---	---
Sample Date		Client Info		14 Jun 2024	---	---
Machine Age	hrs	Client Info		397	---	---
Sample Status				NORMAL	---	---
Aluminum	ppm	ASTM D5185m	<0.1	0	---	---
Nickel	ppm	ASTM D5185m	<0.1	0	---	---
Lead	ppm	ASTM D5185m	<0.1	0	---	---
Vanadium	ppm	ASTM D5185m	<0.1	<1	---	---
Iron	ppm	ASTM D5185m	<0.1	0	---	---
Silicon	ppm	ASTM D5185m	<1.0	<1	---	---
Sodium	ppm	ASTM D5185m	<0.1	1	---	---
Potassium	ppm	ASTM D5185m	<0.1	<1	---	---
Water	%	ASTM D6304	<0.05	0.004	---	---
ppm Water	ppm	ASTM D6304	<500	49	---	---
Particles >4µm		ASTM D7647	>2500	606	---	---
Particles >6µm		ASTM D7647	>640	171	---	---
Particles >14µm		ASTM D7647	>80	16	---	---
Particles >21µm		ASTM D7647	>20	5	---	---
Particles >38µm		ASTM D7647	>4	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/15/11	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---
Calcium	ppm	ASTM D5185m	<0.1	0	---	---
Magnesium	ppm	ASTM D5185m	<0.1	0	---	---
Phosphorus	ppm	ASTM D5185m	<0.1	1	---	---
Zinc	ppm	ASTM D5185m	<0.1	0	---	---
ASTM Color	scalar	*ASTM D1500		L4.0	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	---	---
Sulfur	ppm	ASTM D5185m	250	0	---	---
Sulfur (UVF)	ppm	ASTM D5453		9	---	---
API Gravity		ASTM D7777	37.7	37.1	---	---

Particle Count

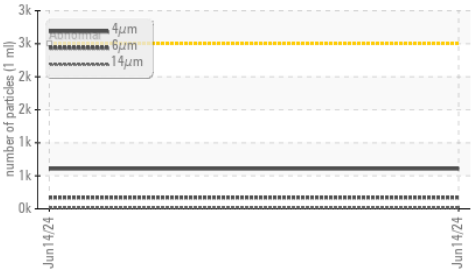


Water (KF)



Viscosity @ 40°C

Particle Trend



Pensky-Martens Flash Point (°C)