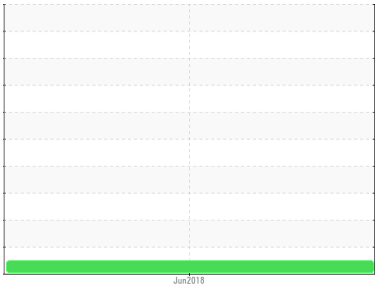
FUEL REPORT

Sample Rating Trend



NORMAL

Machine Id
FORD FORD F-250
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-SULPHUR) (29 GAL)

DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Contaminants

There is no indication of Bacteria, Yeast and/or Fungus present in the sample. The water content is negligible. The amount and size of particulates present at 15/11 in the system are acceptable. There is no indication of any contamination in the fuel.

Fuel Condition

Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**KLDF00822**	---	---
Sample Date		Client Info		**04 Jun 2018**	---	---
Machine Age	mls	Client Info		**281591**	---	---
Sample Status				**NORMAL**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		**0.833**	---	---
Fuel Color	text	*Visual Screen		**Yllow**	---	---
ASTM Color	scalar	*ASTM D1500		**L0.5**	---	---
Visc @ 40°C	cSt	ASTM D445		**2.39**	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		**67**	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		**19**	---	---
Sulfur (UVF)	ppm	ASTM D5453		**15**	---	---

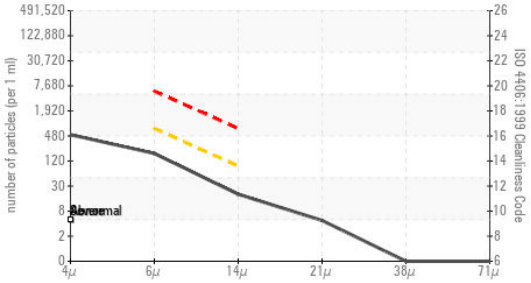
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		**173**	---	---
5% Distillation Point	°C	ASTM D86		**199**	---	---
10% Distill Point	°C	ASTM D86		**208**	---	---
15% Distillation Point	°C	ASTM D86		**215**	---	---
20% Distill Point	°C	ASTM D86		**221**	---	---
30% Distill Point	°C	ASTM D86		**233**	---	---
40% Distill Point	°C	ASTM D86		**244**	---	---
50% Distill Point	°C	ASTM D86		**255**	---	---
60% Distill Point	°C	ASTM D86		**267**	---	---
70% Distill Point	°C	ASTM D86		**281**	---	---
80% Distill Point	°C	ASTM D86		**296**	---	---
85% Distillation Point	°C	ASTM D86		**306**	---	---
90% Distill Point	°C	ASTM D86		**317**	---	---
95% Distillation Point	°C	ASTM D86		**332**	---	---
Final Boiling Point	°C	ASTM D86		**341**	---	---
Distillation Residue	%	ASTM D86		**1.4**	---	---
Distillation Loss	%	ASTM D86		**0.8**	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		**38.4**	---	---
Cetane Index		ASTM D4737	<40.0	**50.5**	---	---

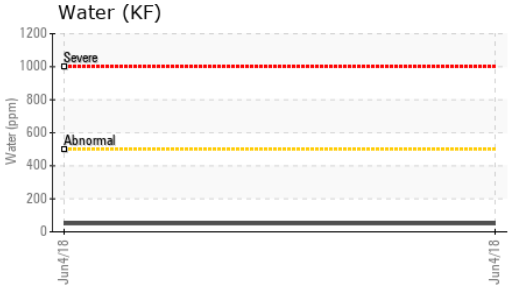
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	**<1**	---	---
Sodium	ppm	ASTM D5185m	<0.1	**<1**	---	---
Potassium	ppm	ASTM D5185m	<0.1	**0**	---	---
Water	%	ASTM D6304	<0.05	**0.005**	---	---
ppm Water	ppm	ASTM D6304	<500	**50**	---	---
% Gasoline	%	*In-House	<0.50	**0.0**	---	---
% Biodiesel	%	*In-House	<20.0	**3.2**	---	---

FUEL REPORT

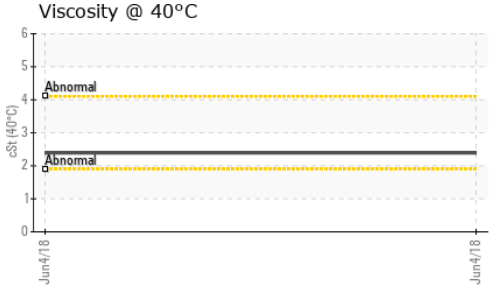
Particle Count



Water (KF)



Viscosity @ 40°C



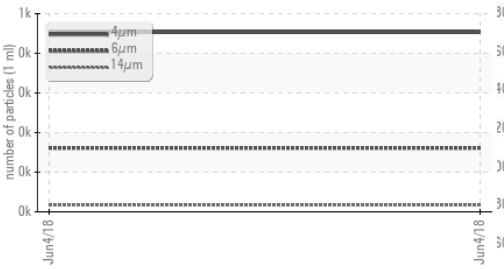
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**453**	---	---
Particles >6µm		ASTM D7647	>640	**161**	---	---
Particles >14µm		ASTM D7647	>80	**17**	---	---
Particles >21µm		ASTM D7647	>20	**4**	---	---
Particles >38µm		ASTM D7647	>4	**0**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>16/13	**15/11**	---	---

HEAVY METALS		method	limit/base	current	history1	history2
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	**0**	---	---
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	**2**	---	---

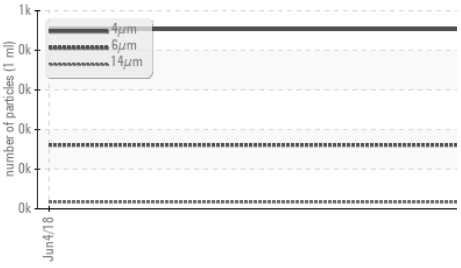
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

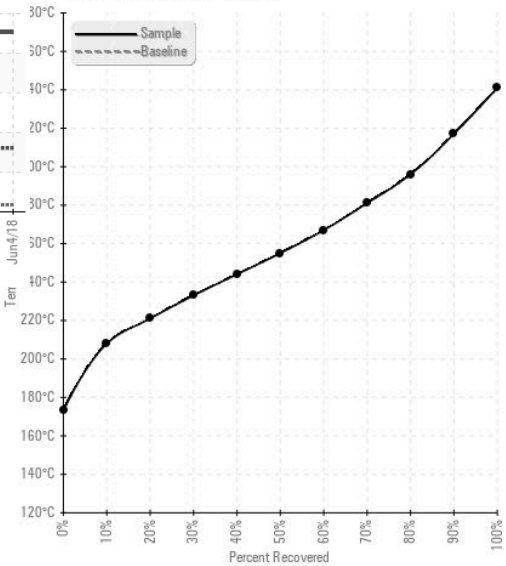
Particle Trend



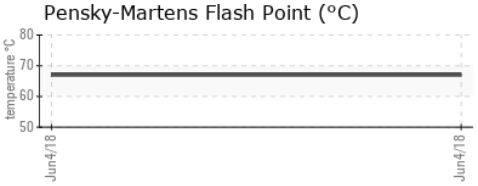
Particle Trend



Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KLDF00822 **Received** : 24 Jul 2018
Lab Number : 04516211 **Diagnosed** : 28 Jul 2018
Unique Number : 8275040 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: 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)

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