



FUEL REPORT

Sample Rating Trend



ISO

Machine Id
KIOTI CK2620H PA3TA2948

Component
Diesel Fuel
Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. 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

There is a high amount of particulates present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated 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			KT0000671	---	---
Sample Date	Client Info			17 Nov 2023	---	---
Machine Age	hrs	Client Info		2	---	---
Sample Status				ATTENTION	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.853	---	---
Fuel Color	text	*Visual Screen		Red	---	---
ASTM Color	scalar	*ASTM D1500		4.0	---	---
Visc @ 40°C	cSt	ASTM D445		2.7	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		58	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		4	---	---
Sulfur (UVF)	ppm	ASTM D5453		13	---	---

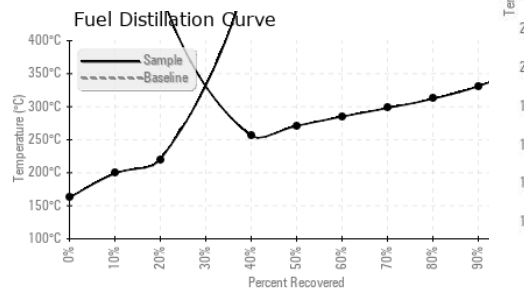
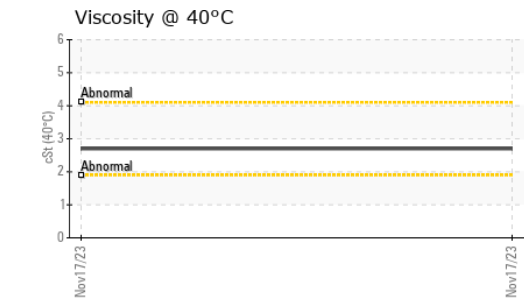
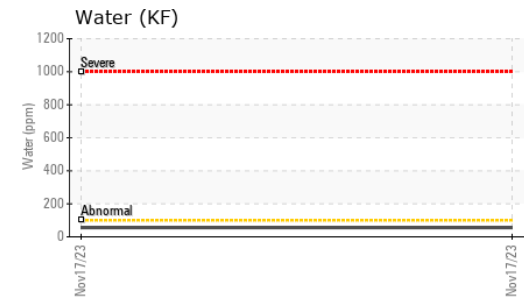
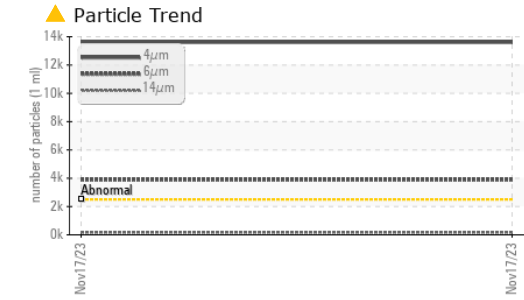
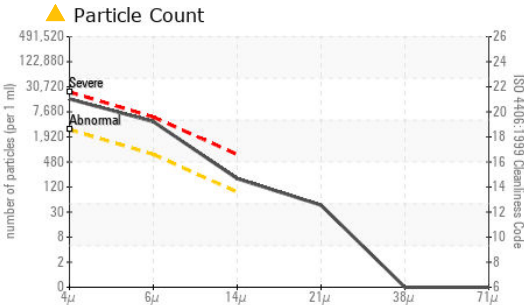
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		162	---	---
5% Distillation Point	°C	ASTM D86		187	---	---
10% Distill Point	°C	ASTM D86		199	---	---
15% Distillation Point	°C	ASTM D86		210	---	---
20% Distill Point	°C	ASTM D86		220	---	---
30% Distill Point	°C	ASTM D86		2410	---	---
40% Distill Point	°C	ASTM D86		256	---	---
50% Distill Point	°C	ASTM D86		271	---	---
60% Distill Point	°C	ASTM D86		285	---	---
70% Distill Point	°C	ASTM D86		298	---	---
80% Distill Point	°C	ASTM D86		312	---	---
85% Distillation Point	°C	ASTM D86		321	---	---
90% Distill Point	°C	ASTM D86		331	---	---
95% Distillation Point	°C	ASTM D86		348	---	---
Final Boiling Point	°C	ASTM D86		358	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.5	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		34.4	---	---
Cetane Index		ASTM D4737	<40.0	45.2	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---	---
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	56	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---



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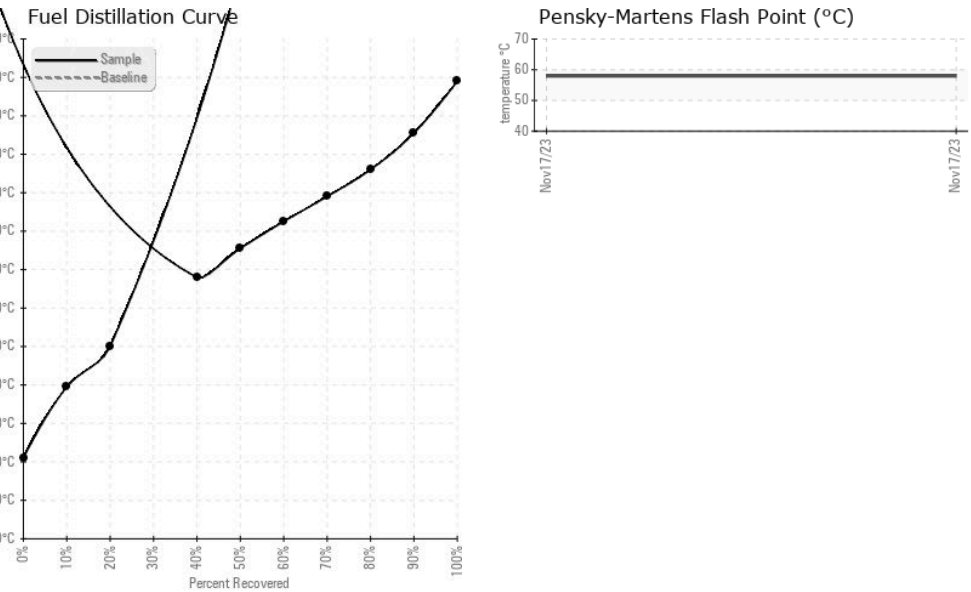


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 13611	---	---
Particles >6µm	ASTM D7647	>640	▲ 3895	---	---
Particles >14µm	ASTM D7647	>80	▲ 168	---	---
Particles >21µm	ASTM D7647	>20	▲ 39	---	---
Particles >38µm	ASTM D7647	>4	0	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 21/19/15	---	---

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	0	---	---
Magnesium	ppm	ASTM D5185m <0.1	0	---	---
Phosphorus	ppm	ASTM D5185m <0.1	0	---	---
Zinc	ppm	ASTM D5185m <0.1	0	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000671 **Received** : 22 Nov 2023
Lab Number : 06015985 **Diagnosed** : 13 Dec 2023
Unique Number : 10755129 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

COWLITZ RIVER RIGGING
 1540 INDUSTRIAL WAY
 LONGVIEW, WA
 US 98632
 Contact: GARRET
 garret@loggingsupply.com
 T: (360)425-6720
 F:

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)