



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
FUEL CONDITION	NORMAL

Area

[20234317]

Machine Id

Koehler 4700 River Rd 300KW

Component

Diesel Fuel

Fluid

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (1000 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0029833	DC0022277	---
Sample Date		Client Info		28 Sep 2023	08 Jul 2022	---
Machine Age	yrs	Client Info		0	0	---
Sample Status				NORMAL	NORMAL	---

CORROSION

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

Aluminum	ppm	ASTM D5185m	<0.1	0	0	---
Nickel	ppm	ASTM D5185m	<0.1	0	<1	---
Lead	ppm	ASTM D5185m	<0.1	0	0	---
Vanadium	ppm	ASTM D5185m	<0.1	0	0	---
Iron	ppm	ASTM D5185m	<0.1	0	0	---

CONTAMINANTS

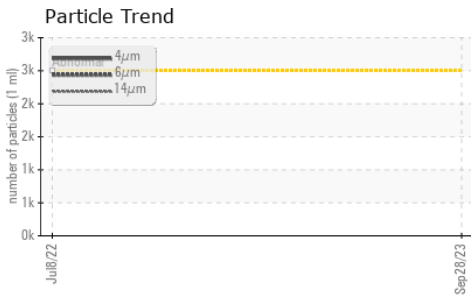
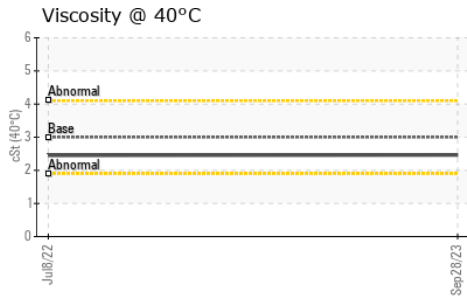
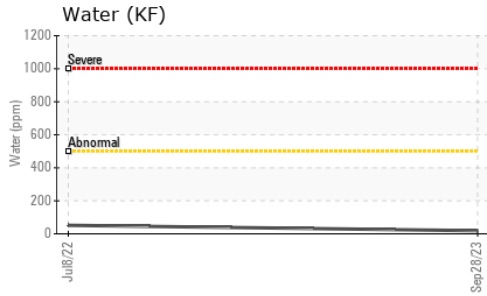
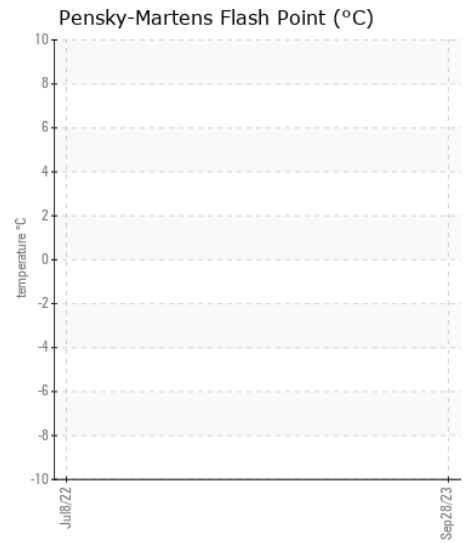
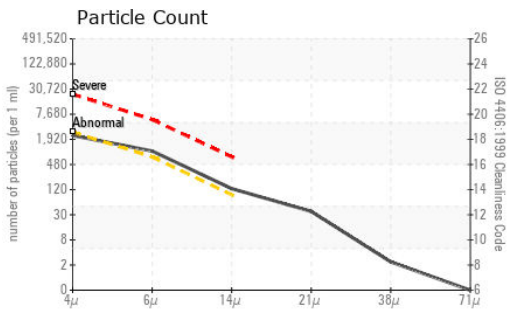
There is a moderate amount of particulates present in the fuel. The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

Silicon	ppm	ASTM D5185m	<1.0	0	0	---
Sodium	ppm	ASTM D5185m	<0.1	0	0	---
Potassium	ppm	ASTM D5185m	<0.1	<1	0	---
Water	%	ASTM D6304	<0.05	0.002	0.005	---
ppm Water	ppm	ASTM D6304	<500	18.8	51.6	---
Particles >4µm		ASTM D7647	>2500	2080	---	---
Particles >6µm		ASTM D7647	>640	883	---	---
Particles >14µm		ASTM D7647	>80	112	---	---
Particles >21µm		ASTM D7647	>20	32	---	---
Particles >38µm		ASTM D7647	>4	2	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	18/17/14	---	---
% Gasoline	%	*In-House	<0.50	0.0	0.0	---
% Biodiesel	%	*In-House	<20.0	0.0	0.0	---
Calcium	ppm	ASTM D5185m	<0.1	2	0	---
Magnesium	ppm	ASTM D5185m	<0.1	2	0	---
Phosphorus	ppm	ASTM D5185m	<0.1	<1	0	---
Zinc	ppm	ASTM D5185m	<0.1	0	0	---

FUEL CONDITION

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

ASTM Color	scalar	*ASTM D1500		L4.5	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.46	2.45	---
Sulfur	ppm	ASTM D5185m	10	7	0	---
Sulfur (UVF)	ppm	ASTM D5453		14	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0029833 **Received** : 09 Oct 2023
Lab Number : 05973508 **Tested** : 12 Oct 2023
Unique Number : 10685458 **Diagnosed** : 18 Oct 2023 - Doug Bogart
Test Package : DF-5 (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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