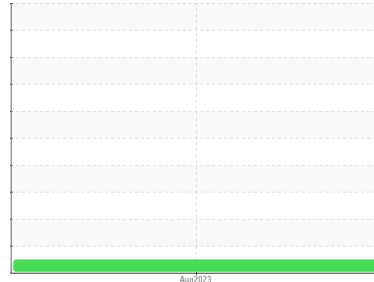




FUEL REPORT

Sample Rating Trend

NORMAL



Machine Id
KIOTI CS2520 XY8800352

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

DIAGNOSIS

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

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.

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			KT0000684	---	---
Sample Date	Client Info			24 Aug 2023	---	---
Machine Age	hrs	Client Info		107	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.841	---	---
Fuel Color	text	*Visual Screen		Orang	---	---
ASTM Color	scalar	*ASTM D1500		L3.5	---	---
Visc @ 40°C	cSt	ASTM D445		2.46	---	---
Pensky-Martens Flash Point	°C	*PMCC Calculated		58	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0	---	---
Sulfur (UVF)	ppm	ASTM D5453		8	---	---

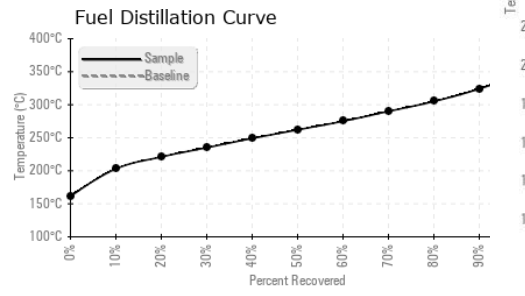
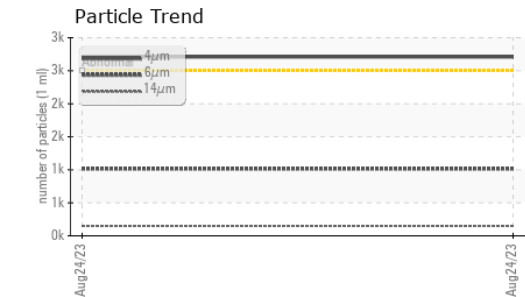
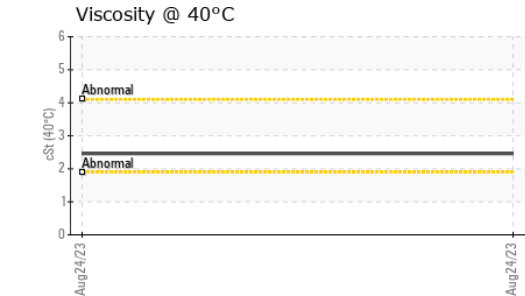
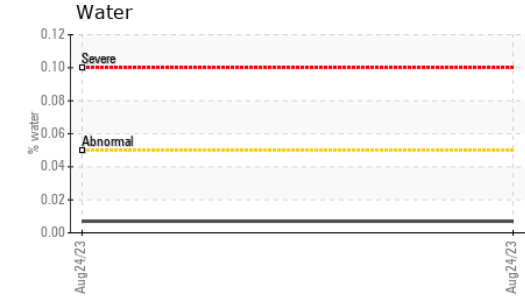
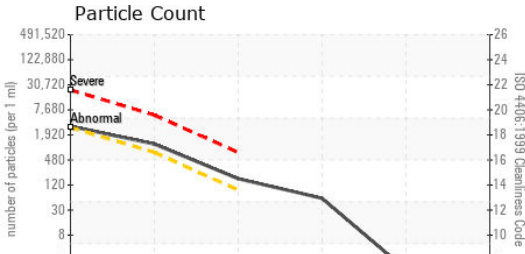
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		161	---	---
5% Distillation Point	°C	ASTM D86		191	---	---
10% Distill Point	°C	ASTM D86		203	---	---
15% Distillation Point	°C	ASTM D86		213	---	---
20% Distill Point	°C	ASTM D86		221	---	---
30% Distill Point	°C	ASTM D86		235	---	---
40% Distill Point	°C	ASTM D86		249	---	---
50% Distill Point	°C	ASTM D86		262	---	---
60% Distill Point	°C	ASTM D86		275	---	---
70% Distill Point	°C	ASTM D86		290	---	---
80% Distill Point	°C	ASTM D86		305	---	---
85% Distillation Point	°C	ASTM D86		314	---	---
90% Distill Point	°C	ASTM D86		324	---	---
95% Distillation Point	°C	ASTM D86		339	---	---
Final Boiling Point	°C	ASTM D86		348	---	---
Distillation Residue	%	ASTM D86		1.4	---	---
Distillation Loss	%	ASTM D86		0.7	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777		36.8	---	---
Cetane Index		ASTM D4737	<40.0	48.3	---	---

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	2	---	---
Water	%	ASTM D6304	<0.05	0.007	---	---
ppm Water	ppm	ASTM D6304	<500	78.9	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	2.5	---	---



FUEL REPORT

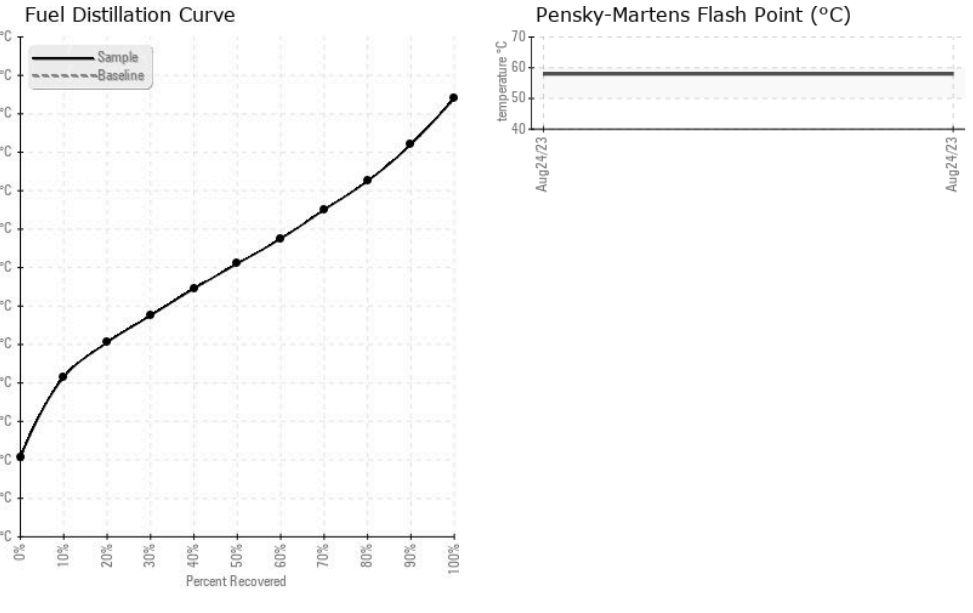


FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	2710	---	---
Particles >6µm	ASTM D7647	>640	1017	---	---
Particles >14µm	ASTM D7647	>80	150	---	---
Particles >21µm	ASTM D7647	>20	51	---	---
Particles >38µm	ASTM D7647	>4	1	---	---
Particles >71µm	ASTM D7647	>3	0	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	19/17/14	---	---

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	<1	---	---
Vanadium	ppm	ASTM D5185m <0.1	<1	---	---
Iron	ppm	ASTM D5185m <0.1	0	---	---
Calcium	ppm	ASTM D5185m <0.1	0	---	---
Magnesium	ppm	ASTM D5185m <0.1	6	---	---
Phosphorus	ppm	ASTM D5185m <0.1	7	---	---
Zinc	ppm	ASTM D5185m <0.1	11	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KT0000684 **Received** : 28 Aug 2023
Lab Number : **05936876** **Diagnosed** : 04 Sep 2023
Unique Number : 10622147 **Diagnostician** : Doug Bogart
Test Package : DF-2 (Additional Tests: Screen)

NOLTS POWER EQUIPMENT
 3720 SHERMANS VALLEY RD
 LOYSVILLE, PA
 US 17047
 Contact: DELBERT
 delbert@perrypower.com
 T: (717)789-3532
 F:

Certificate L2367
 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)