

# **FUEL REPORT**

# Sample Rating Trend



KIOTI WA0G-00115

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 silt (particulates < 14 microns in size) 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.

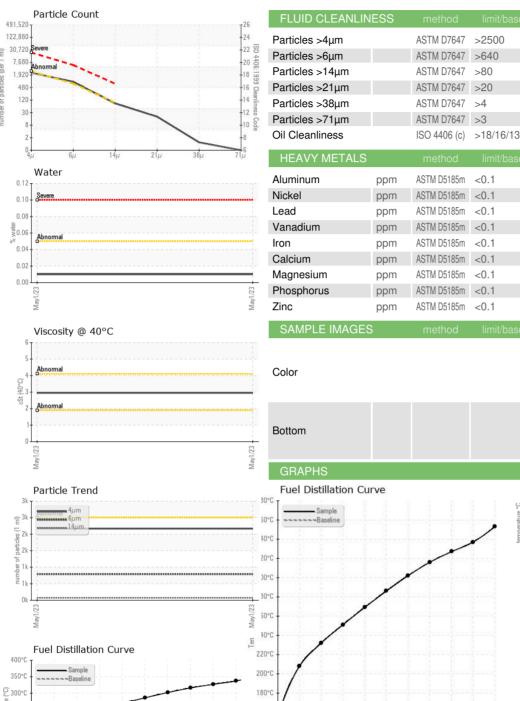
			N	Nay2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KT0000459		
Sample Date		Client Info		01 May 2023		
Machine Age	hrs	Client Info		109		
Sample Status				NORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		0.860		
Fuel Color	text	*Visual Screen		Yllow		
ASTM Color	scalar	*ASTM D1500		3.0		
Visc @ 40°C	cSt	ASTM D445		2.95		
Pensky-Martens Flash Point	°C	*PMCC Calculated		56		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF)	ppm	ASTM D5453		6		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86		156		
5% Distillation Point	°C	ASTM D86		192		
10% Distill Point	°C	ASTM D86		208		
15% Distillation Point	°C	ASTM D86		221		
20% Distill Point	°C	ASTM D86		232		
30% Distill Point	°C	ASTM D86		251		
40% Distill Point	°C	ASTM D86		269		
50% Distill Point	°C	ASTM D86		286		
60% Distill Point	°C	ASTM D86		302		
70% Distill Point	°C	ASTM D86		316		
80% Distill Point	°C	ASTM D86		327		
85% Distillation Point	°C	ASTM D86		332		
90% Distill Point	°C	ASTM D86		337		
95% Distillation Point	°C	ASTM D86		347		
Final Boiling Point	°C	ASTM D86		353		
Distillation Residue	%	ASTM D86		1.4		
Distillation Loss	%	ASTM D86		0.9		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777		33.0		
Cetane Index		ASTM D4737	<40.0	45.2		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	2		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	<0.05	0.010		
ppm Water	ppm	ASTM D6304	<500	100.5		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	18.5		



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number of particles (per 1

# FUEL REPORT



160°

140°C

120°C

10%

: KT0000459

: 05879164

: 10524267

Pensky-Martens Flash Point (°C)

no image

no image

no image

no image

2168

791

73

17

1

0

<1

<1

<1

<1

0

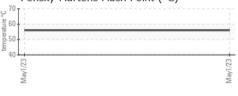
0

4

0

<1

18/17/13





250°0

້ ສີ 200°I

150°0

10



50% %09 70% 80% %06

t Rec

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)

30%

40% 50%

20%

%0L

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

80% 90%

Diagnostician : Doug Bogart

: 20 Jun 2023

: 29 Jun 2023

NORTHLAND FARM SYSTEMS INC 2250 AUSTIN RD

OWATONNA, MN US 55060 Contact: JARROD GRUNKLEE jarrod@northlandfs.com T: F:

Report Id: NOROWA [WUSCAR] 05879164 (Generated: 07/20/2023 15:45:12) Rev: 1

Contact/Location: JARROD GRUNKLEE - NOROWA