



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
FUEL CONDITION	NORMAL

Area
[PMOAS2856063]
 Machine Id
SR4B-GD G4W00785
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- QTS)

RECOMMENDATION

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		DC0034220	DC0029122	DC0023530
Sample Date		Client Info		26 Jan 2024	12 May 2023	09 Sep 2022
Machine Age	hrs	Client Info		0	213	210
Sample Status				NORMAL	NORMAL	ATTENTION

CORROSION

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

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

CONTAMINANTS

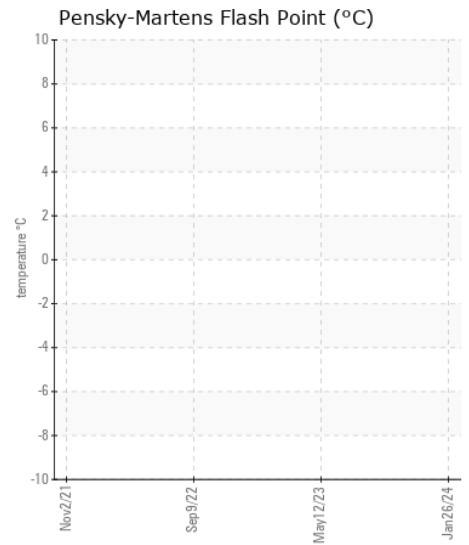
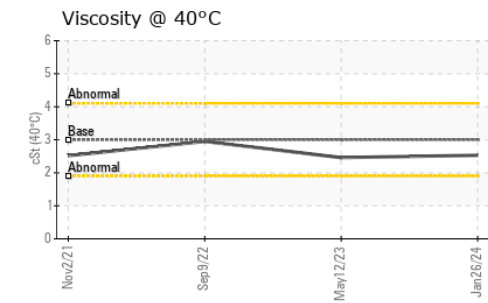
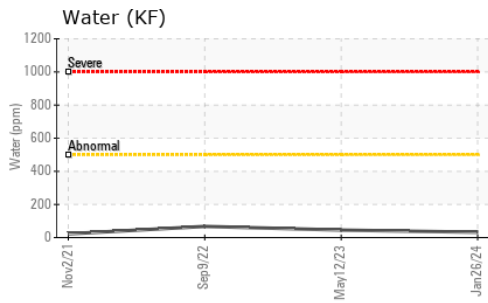
The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

Silicon	ppm	ASTM D5185m	<1.0	2	<1	1
Sodium	ppm	ASTM D5185m	<0.1	<1	0	0
Potassium	ppm	ASTM D5185m	<0.1	<1	0	0
Water	%	ASTM D6304	<0.05	0.003	0.004	0.006
ppm Water	ppm	ASTM D6304	<500	32	45.3	67.5
Particles >4µm		ASTM D7647	>2500	---	1792	28105
Particles >6µm		ASTM D7647	>640	---	638	8825
Particles >14µm		ASTM D7647	>80	---	100	1020
Particles >21µm		ASTM D7647	>20	---	40	284
Particles >38µm		ASTM D7647	>4	---	2	24
Particles >71µm		ASTM D7647	>3	---	0	1
Oil Cleanliness		ISO 4406 (c)	>18/16/13	---	18/16/14	22/20/17
% Gasoline	%	*In-House	<0.50	0.0	0.0	0.0
% Biodiesel	%	*In-House	<20.0	0.0	0.0	0.0
Calcium	ppm	ASTM D5185m	<0.1	1	2	127
Magnesium	ppm	ASTM D5185m	<0.1	<1	<1	5
Phosphorus	ppm	ASTM D5185m	<0.1	<1	2	54
Zinc	ppm	ASTM D5185m	<0.1	0	0	61

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	L4.0	L4.5
Visc @ 40°C	cSt	ASTM D445	3.0	2.53	2.46	2.95
Sulfur	ppm	ASTM D5185m	10	3	0	270
Sulfur (UVF)	ppm	ASTM D5453		10	14	189
API Gravity		ASTM D7777	37.7	35.8	35.8	35.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513	Received : 22 Feb 2024	KELLY GENERATOR & EQUIPMENT INC
Sample No. : DC0034220	Tested : 27 Feb 2024	1955 DALE LN
Lab Number : 06098057	Diagnosed : 27 Feb 2024 - Doug Bogart	OWINGS, MD
Unique Number : 10896287		US 20736
Test Package : MOB 1 (Additional Tests: API, Cetane, Color-ASTM, Fuel, GC-PercFuel, KF, PrtCoun		Contact: LESLIE SNURR
To discuss this sample report, contact Customer Service at 1-800-237-1369.		LSNURR@KGE.COM
* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.		T: (410)257-5225
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)		F: (410)257-5227