

CORROSION CONTAMINANTS FUEL CONDITION **NORMAL NORMAL NORMAL**

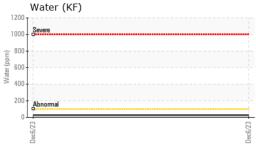
[PMIAS3096812]

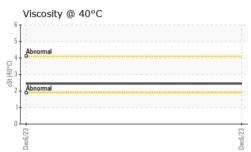
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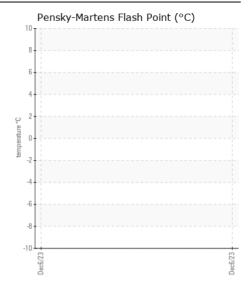
Component Diesel Fuel

{not provided} (--- GAL)

Test UOM Method Limil/Ren Current History1 History2 History2	(iiot provided) (GAL)					.,		
No.2 ultra-low-sulfur diesel fuel. Sample Date Client Info 0 60 60 602	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 06 Dec 2023		Sample Number		Client Info		DC0033995		
NORMAL N		Sample Date		Client Info		06 Dec 2023		
Aluminum ppm ASTM D5185m <0.1 2		Machine Age	hrs	Client Info		0		
All metal levels are normal indicating no corrosion in the system. Nickel ppm ASTM D5185m <0.1 0		Sample Status				NORMAL		
Lead	CORROSION	Aluminum	ppm	ASTM D5185m	<0.1	2		
Vanadium ppm ASTM D5185m <0.1 0 Iron ppm ASTM D5185m <0.1 0 Iron ppm ASTM D5185m <0.1 0	All metal levels are normal indicating no corrosion in the system.	Nickel	ppm	ASTM D5185m	<0.1	0		
Iron ppm ASTM D5185m <0.1 0 Solitron ppm ASTM D5185m <0.1 0 The water content is negligible. There is no Bacteria, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel. Potassium ppm ASTM D5185m <0.1 0 Ppm Water ppm ASTM D6304 <0.05 0.002 Ppm Water ppm ASTM D6304 <0.05 0.002 Ppm Water ppm ASTM D5185m <0.1 0 Phosphorus ppm ASTM D5185m <0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur ppm ASTM D445 2.44 Sulfur ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 0 ASTM D5185m 0 Potassium ppm ASTM D5185m ppm ppm ASTM D5185m ppm ppm ppm ASTM D5185m ppm ppm ppm ppm ASTM D5185m ppm		Lead	ppm	ASTM D5185m	<0.1	0		
Silicon ppm ASTM D5185m <1.0 0 FUEL CONDITION Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur (VVF) ppm ASTM D5185m <0.1 0 Sodium ppm ASTM D5185m <0.1 0 Potassium ppm ASTM D5185m <0.1 0 Potassium ppm ASTM D5185m <0.1 0 Water % ASTM D6304 <0.05 0.002 ppm Water ppm ASTM D6304 <500 24 % Biodiesel % *In-House <0.50 0.0 % Biodiesel % *In-House <0.50 0.0 Magnesium ppm ASTM D5185m <0.1 0 Phosphorus ppm ASTM D5185m <0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur [ppm ASTM D5185m 0 Sulfur (VVF) ppm ASTM D5453 9		Vanadium	ppm	ASTM D5185m	<0.1	0		
Sodium ppm ASTM D5185m < 0.1 0		Iron	ppm	ASTM D5185m	<0.1	0		
Fungus indicated in the sample. There is no indication of any contamination in the fuel. Potassium ppm ASTM D5185m <0.1 0 Water % ASTM D6304 <0.05 0.002 ppm Water ppm ASTM D6304 <500 24 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <20.0 0.0 Calcium ppm ASTM D5185m <0.1 0 Phosphorus ppm ASTM D5185m <0.1 0 Phosphorus ppm ASTM D5185m <0.1 0 Zinc ppm ASTM D5185m <0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur ppm ASTM D5185m 0 Sulfur (UVF) ppm ASTM D5453 9	CONTAMINANTS	Silicon	ppm	ASTM D5185m	<1.0	0		
Contamination in the fuel. Potassium ppm ASTM D6304 <0.05 0.002	Fungus indicated in the sample. There is no indication of any	Sodium	ppm	ASTM D5185m	<0.1	0		
ppm Water ppm ASTM D6304 <500 24 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <20.0 0.0 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 Sulfur value derived by ASTM D4294 method for ULSD validation. Visc @ 40°C cst ASTM D455 2.44 Sulfur ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 0 Sulfur ppm ASTM D5453 9		Potassium	ppm	ASTM D5185m	<0.1	0		
% Gasoline		Water	%	ASTM D6304	<0.05	0.002		
% Biodiese % *In-House <20.0		ppm Water	ppm	ASTM D6304	<500	24		
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 Zinc ppm ASTM D5185m <0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification. Sulfur ppm ASTM D5185m 0 Sulfur ppm ASTM D5185m 0 Sulfur (UVF) ppm ASTM D5453 9		% Gasoline	%	*In-House	<0.50	0.0		
Magnesium ppm ASTM D5185m <0.1 0 Phosphorus ppm ASTM D5185m <0.1 0 Zinc ppm ASTM D5185m <0.1 0 Zinc ppm ASTM D5185m <0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification.		% Biodiesel	%	*In-House	<20.0	0.0		
Phosphorus ppm ASTM D5185m <0.1 0 Zinc ppm ASTM D5185m <0.1 0 Zinc ppm ASTM D5185m <0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification. Visc @ 40°C cSt ASTM D445 2.44 Sulfur ppm ASTM D5185m 0 Sulfur (UVF) ppm ASTM D5453 9		Calcium	ppm	ASTM D5185m	<0.1	0		
Zinc ppm ASTM D5185m <0.1 0		Magnesium	ppm	ASTM D5185m	<0.1	0		
FUEL CONDITION Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification. Visc @ 40°C		Phosphorus	ppm	ASTM D5185m	<0.1	0		
Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur level is acceptable for ULSD specification. Visc @ 40°C		Zinc	ppm	ASTM D5185m	<0.1	0		
Sulfur level is acceptable for ULSD specification. Sulfur ppm ASTM D5185m 0 Sulfur (UVF) ppm ASTM D5453 9	FUEL CONDITION	ASTM Color	scalar	*ASTM D1500		L3.0		
Sulfur (UVF) ppm ASTM D5185m 0 Sulfur (UVF) ppm ASTM D5453 9		Visc @ 40°C	cSt	ASTM D445		2.44		
		Sulfur	ppm	ASTM D5185m		0		
API Gravity ASTM D7777 (37.0)		Sulfur (UVF)	ppm	ASTM D5453		9		
		API Gravity		ASTM D7777		37.0		









Certificate L2367

Laboratory Sample No. Lab Number

: DC0033995 : 06049295 Unique Number : 10809903

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed Diagnostician : Doug Bogart

: 02 Jan 2024 : 10 Jan 2024 **Test Package**: DF-5 (Additional Tests: API, Cetane, Fuel, Screen) **KELLY GENERATOR & EQUIPMENT INC** 1955 DALE LN OWINGS, MD US 20736 Contact: LESLIE SNURR

Contact/Location: LESLIE SNURR - KELOWI

LSNURR@KGE.COM T: (410)257-5225 F: (410)257-5227

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)