CORROSION CONTAMINANTS FUEL CONDITION NORMAL NORMAL NORMAL

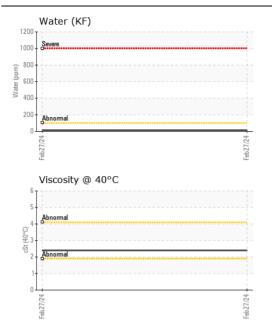
Machine Id

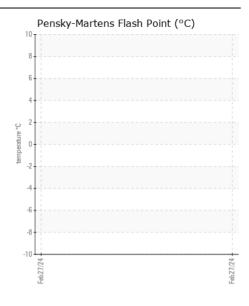
KOHLER 150RE0ZJF 3329GMGJ0006

Component
Diesel Fuel

{not provided} (--- GAL)

Test UOM Method LimitAth Current History1 History History History History History History History History History No.2 ultra-low-sulfur diesel fuel. Sample Number Cilient Info DC0035925	()							
No.2 ultra-low-sulfur diesel fuel. Sample Date Machine Age hrs Client Info 5	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info 27 Feb 2024 Machine Age hrs Client Info 5 Sample Status NORMAL Sample Status NORMAL Sample Status NORMAL Sample Status NORMAL All minum ppm ASTM D5185m <0.1 0 Lead ppm ASTM D5185m <0.1 0 Vanadium ppm ASTM D5185m <0.1 0 Vanadium ppm ASTM D5185m <0.1 0 Iron ppm ASTM D5185m <0.1 0 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. Sodium ppm ASTM D5185m <0.1 0 Water % ASTM D5185m <0.1 0 Water % ASTM D6185m <0.1 0 Water % ASTM D6304 <0.05 0.001 Ppm Water ppm ASTM D6304 <0.05 0.001 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <0.50 0.0 Magnesium ppm ASTM D6185m <0.1 0 Phosphorus ppm ASTM D6185m <0.1 0 Phosphorus ppm ASTM D6185m <0.1 0 Plus Condition ppm ASTM D6185m <0.1 0 Plus		Sample Number		Client Info		DC0035925		
CORROSION		Sample Date		Client Info		27 Feb 2024		
Aluminum ppm ASTM D5185m < 0.1 0 Mickel ppm ASTM D5185m < 0.1 0 Lead ppm ASTM D5185m < 0.1 0 Lead ppm ASTM D5185m < 0.1 0 Vanadium		Machine Age	hrs	Client Info		5		
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	0		
Vanadium ppm ASTM D5185m <0.1 0 Iron ppm ASTM D5185m <0.1 0 Iron ppm ASTM D5185m <0.1 0 CONTAMINANTS Silicon ppm ASTM D5185m <1.0 0 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. Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D5185m <0.1 0 Potassium ppm ASTM D5185m <0.1 0 Ppm Water ppm ASTM D6304 <500 11 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <0.50 0.0 Magnesium ppm ASTM D5185m <0.1 0 Magnesium ppm ASTM D5185m <0.1 0 Tinc ppm ASTM D5185m <0.1 0 FUEL CONDITION ASTM Color scalar *ASTM D1500 L4.5 Sulfur value derived by ASTM D5453 method for ULSD validation. Visc @ 40°C cst ASTM D450 2.4	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 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.		Lead	ppm	ASTM D5185m	<0.1	0		
Silicon ppm ASTM D5185m <1.0 0 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. Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D5185m <0.1 0 Potassium ppm ASTM D6304 <0.05 0.001 ppm Water ppm ASTM D6304 <500 11 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <20.0 0.0 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 D5453 method for ULSD validation. Visc @ 40°C CSt ASTM D445 2.4		Vanadium	ppm	ASTM D5185m	<0.1	0		
Sodium ppm ASTM D5185m < 0.1 < 1 and/or mold) 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 0.001 ppm Water ppm ASTM D6304 < 500 11 % Gasoline % *In-House < 0.50 0.0 % Biodiesel % *In-House < 20.0 0.0 Magnesium 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 D5453 method for ULSD validation. Sulfur value derived is acceptable for ULSD specification.		Iron	ppm	ASTM D5185m	<0.1	0		
and/or mold) 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 0.001 ppm Water ppm ASTM D6304 <500 11 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <20.0 0.0 Magnesium 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 D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.	CONTAMINANTS	Silicon	ppm	ASTM D5185m	<1.0	0		
Contamination in the fuel. Potassium ppm ASIM D5185m <0.1 0	and/or mold) indicated in the sample. There is no indication of any	Sodium	ppm	ASTM D5185m	<0.1	<1		
ppm Water ppm ASTM D6304 <500 11		Potassium	ppm	ASTM D5185m	<0.1	0		
% Gasoline		Water	%	ASTM D6304	<0.05	0.001		
% 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 D5453 method for ULSD validation. Visc @ 40°C cSt ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. ASTM D445 2.4		ppm Water	ppm	ASTM D6304	<500	11		
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 ASTM Color scalar *ASTM D1500 L4.5 Sulfur value derived by ASTM D5453 method for ULSD validation. Visc @ 40°C cSt ASTM D445 2.4 Sulfur level is acceptable for ULSD specification.		% 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 D5453 method for ULSD validation. Visc @ 40°C cSt ASTM D445 2.4 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 D5453 method for ULSD validation. Visc @ 40°C cSt ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD specification. CST ASTM D445 2.4 Sulfur level is acceptable for ULSD		Calcium	ppm	ASTM D5185m	<0.1	0		
Zinc ppm ASTM D5185m < 0.1 0 FUEL CONDITION ASTM Color scalar *ASTM D1500 L4.5 Sulfur value derived by ASTM D5453 method for ULSD validation. Visc @ 40°C cSt ASTM D445 2.4 Sulfur level is acceptable for ULSD specification.		Magnesium	ppm	ASTM D5185m	<0.1	0		
FUEL CONDITION ASTM Color scalar *ASTM D1500 L4.5 Sulfur value derived by ASTM D5453 method for ULSD validation. Visc @ 40°C cSt ASTM D445 2.4 Sulfur level is acceptable for ULSD specification.		Phosphorus	ppm	ASTM D5185m	<0.1	0		
Sulfur value derived by ASTM D5453 method for ULSD validation. Visc @ 40°C		Zinc	ppm	ASTM D5185m	<0.1	0		
Sulfur level is acceptable for ULSD specification.	FUEL CONDITION	ASTM Color	scalar	*ASTM D1500		L4.5		
Sulfur level is acceptable for ULSD specification. Sulfur ppm ASTM D5185m 0		Visc @ 40°C	cSt	ASTM D445		2.4		
		Sulfur	ppm	ASTM D5185m		0		
Sulfur (UVF) ppm ASTM D5453 10		Sulfur (UVF)	ppm	ASTM D5453		10		
API Gravity ASTM D7777 37.4		API Gravity		ASTM D7777		37.4		







Certificate L2367

Laboratory Sample No.

: DC0035925 Lab Number : 06122862 Unique Number : 10937013

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Mar 2024 : 07 Apr 2024 **Tested** Diagnosed

: 07 Apr 2024 - Doug Bogart

KELLY GENERATOR & EQUIPMENT INC 1955 DALE LN OWINGS, MD US 20736

Test Package: DF-5 (Additional Tests: API, Cetane, Fuel, Screen) Contact: LESLIE SNURR To discuss this sample report, contact Customer Service at 1-800-237-1369. LSNURR@KGE.COM T: (410)257-5225

* - 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)

F: (410)257-5227