

CORROSION CONTAMINANTS FUEL CONDITION

NORMAL NORMAL NORMAL

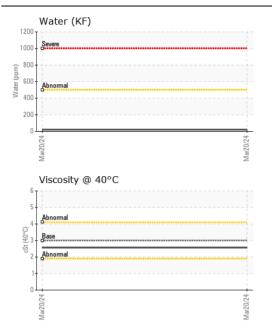
[OJT3393264]

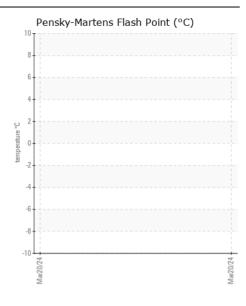
150RE0ZJF 3379GMKH0027

Component
Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, ultra-low sulfur. Sample Date Client Info 20 Mar 2024 Machine Age hrs Client Info 0 Sample Status NORMAL Sample Status NORMAL -	NO.2 DIESEL FUEL (ULTRALOW SULPHUR) (-	GAL)						
No.2 diesel fuel, ultra-low sulfur. Sample Date Client Info 20 Mar 2024	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Nrs Client Info 20 Mar 2024		Sample Number		Client Info		DC0034663		
CORROSION		Sample Date		Client Info		20 Mar 2024		
All metal levels are normal indicating no corrosion in the system. Nickel ppm ASTM D5185m <0.1 0		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		
All metal levels are normal indicating no corrosion in the system. Nickel ppm ASTM D5185m <0.1 0	CORROSION	Aluminum	ppm	ASTM D5185m	<0.1	0		
Vanadium ppm ASTM D5185m <0.1 0 Iron ppm ASTM D5185m <0.1 0 CONTAMINANTS Silicon 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. Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D5185m <0.1 <1 The water content is negligible. There is no indication of any contamination in the fuel. Water Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D6304 <5.00 21 % Gasoline % *In-House <0.50 0.00 % Gasoline % *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 Tinc ppm ASTM D5185m <0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5453 9 Sulfur (UVF) ppm ASTM D5453 9 Sulfur (UVF) ppm ASTM D5455	All metal levels are normal indicating no corrosion in the system.	Nickel		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, Yeast and/or Fungus indicated in the sample. There is no indication of any contamination in the fuel. Sodium ppm ASTM D5185m < 0.1 < 1 Water % ASTM D6185m < 0.1 < 1 Water % ASTM D6185m < 0.002 Ppm Water ppm ASTM D6185m < 0.5 0.002 % Gasoline % *In-House < 0.50 0.00 % Biodiesel % *In-House < 0.50 0.00 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. Sulfur ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) 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 level is acceptable for ULSD specification. Solicon ppm ASTM D5185m <1.0 0 Solicon ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D5185m <0.1 <1 Water % ASTM D6304 <0.05 0.002 Water ppm ASTM D6304 <500 21 % Gasoline % *In-House <0.50 0.0 % Biodiesel % *In-House <0.50 0.0 % Biodiesel % *In-House <0.01 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 10 0 Sulfur ppm ASTM D5185m 10 0 Sulfur ppm ASTM D5185m 10 0 Sulfur ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0		Vanadium	ppm	ASTM D5185m	<0.1	0		
Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D6304 <0.05 0.002 ppm Water ppm ASTM D6304 <500 21 Potassium ppm ASTM D6304 <500 21 Potassium ppm ASTM D5185m <0.1 0		Iron	ppm	ASTM D5185m	<0.1	0		
Sodium ppm ASTM D5185m <0.1 <1 Potassium ppm ASTM D6304 <0.05 0.002 ppm Water ppm ASTM D6304 <500 21 % Gasoline %	CONTAMINANTS	Silicon	nnm	ASTM D5185m	<1.0	0		
Potassium ppm ASTM D5185m < 0.1 < 1 Water % ASTM D6304 < 0.05 0.002 ppm Water ppm ASTM D6304 < 500 21 % 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 Zinc ppm ASTM D5185m < 0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5453 9	The water content is negligible. There is no Bacteria, Yeast and/or Fungus indicated in the sample. There is no indication of any					_		
Water % ASTM D6304 <0.05 0.002								
% Gasoline		Water	%	ASTM D6304	< 0.05	0.002		
% Biodiese % *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 Zinc ppm ASTM D5185m <0.1 0 Sulfur value derived by ASTM D4294 method for ULSD validation. Sulfur ppm ASTM D445 3.0 2.57 Sulfur (UVF) ppm ASTM D5453 9		ppm Water	ppm	ASTM D6304	<500	21		
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. Visc @ 40°C cSt ASTM D445 3.0 2.57 Sulfur (UVF) ppm ASTM D5185m 10 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. Visc @ 40°C cSt ASTM D445 3.0 2.57 Sulfur ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5453 9		% 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. Sulfur ppm ASTM D5185m 10 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		
ASTM Color Scalar *ASTM D1500 L4.5		Phosphorus	ppm	ASTM D5185m	<0.1	0		
Sulfur value derived by ASTM D4294 method for ULSD validation. Visc @ 40°C cSt ASTM D445 3.0 2.57 Sulfur level is acceptable for ULSD specification. Sulfur ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5453 9		Zinc	ppm	ASTM D5185m	<0.1	0		
Sulfur level is acceptable for ULSD specification. Sulfur ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5453 9	FUEL CONDITION	ASTM Color	scalar	*ASTM D1500		L4.5		
Sulfur ppm ASTM D5185m 10 0 Sulfur (UVF) ppm ASTM D5453 9		Visc @ 40°C	cSt	ASTM D445	3.0	2.57		
		Sulfur	ppm	ASTM D5185m	10	0		
API Gravity		Sulfur (UVF)	ppm	ASTM D5453		9		
The relativity		API Gravity		ASTM D7777	37.7	36.2		







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : DC0034663 Lab Number : 06152457

Unique Number : 10982535

Tested Test Package: DF-5 (Additional Tests: API, Cetane, Fuel, Screen)

Received : 17 Apr 2024 : 30 Apr 2024 Diagnosed

: 06 May 2024 - Doug Bogart

KELLY GENERATOR & EQUIPMENT INC 1955 DALE LN OWINGS, MD US 20736 Contact: LESLIE SNURR

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (410)257-5227

Contact/Location: LESLIE SNURR - KELOWI