



FUEL REPORT

Sample Rating Trend

WEAR



Area

[CI3404233]

Machine Id

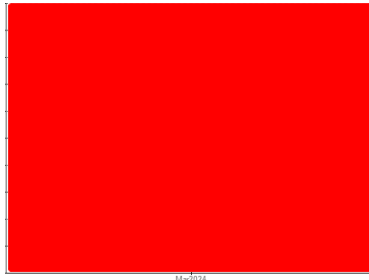
KWIET POWER DGK70B RU706 (S/N 71051-0000163)

Component

Diesel Fuel

Fluid

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



DIAGNOSIS

▲ Recommendation

Check with fluid supplier for the availability of biocides to control the microorganisms in the system. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you inspect the fuel tank for signs of corrosion and remove any heavy microbiological contamination manually. We recommend an early resample to monitor this condition.

▲ Corrosion

Iron ppm levels are severe. The high metal levels indicate corrosion in the system.

▲ Contaminants

Appearance is unacceptable. There is a high amount of visible silt present in the sample. There is a high concentration of Bacteria, Yeast and/or Fungus present in the sample.

Fuel Condition

The fuel is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			DC0029139	---	---
Sample Date	Client Info			27 Mar 2024	---	---
Machine Age	hrs	Client Info		13434	---	---
Sample Status				SEVERE	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L5.0	---	---
Visc @ 40°C	cSt	ASTM D445	3.0	2.53	---	---



SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0	---	---
Sulfur (UVF)	ppm	ASTM D5453		11	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36.0	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	0	---	---
Sodium	ppm	ASTM D5185m	<0.1	<1	---	---
Potassium	ppm	ASTM D5185m	<0.1	0	---	---
Water	%	ASTM D6304	<0.05	0.006	---	---
ppm Water	ppm	ASTM D6304	<500	68	---	---
% Gasoline	%	*In-House	<0.50	0.0	---	---
% Biodiesel	%	*In-House	<20.0	0.0	---	---

MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	▲ 1000	---	---
Yeast	CFU/ml	WC-Method	>=100000	▲ 1000	---	---
Mold	Colonies	WC-Method	MODER	---	---	---

HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185m	<0.1	0	---	---
Nickel	ppm	ASTM D5185m	<0.1	0	---	---
Lead	ppm	ASTM D5185m	<0.1	0	---	---
Vanadium	ppm	ASTM D5185m	<0.1	0	---	---
Iron	ppm	ASTM D5185m	<0.1	▲ 19	---	---
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	---	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



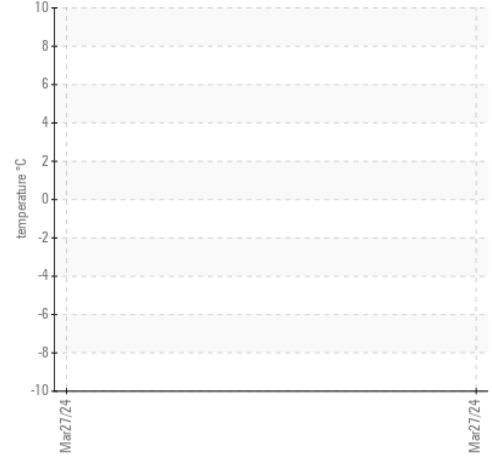
FUEL REPORT

▲ Ferrous Alloys

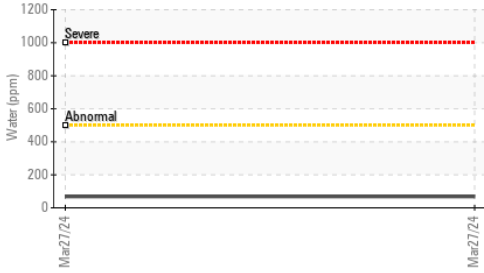


GRAPHS

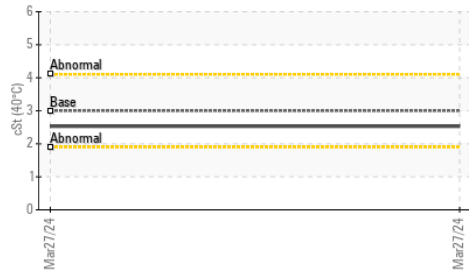
Pensky-Martens Flash Point (°C)



Water (KF)



Viscosity @ 40°C



Certificate L2367

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)

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

Sample No. : DC0029139

Lab Number : 06137854

Unique Number : 10962662

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

Received : 03 Apr 2024

Tested : 16 Apr 2024

Diagnosed : 16 Apr 2024 - Doug Bogart

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