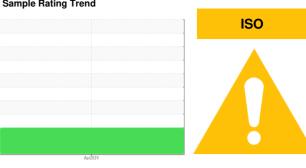


FUEL REPORT

Sample Rating Trend



Machine Id

KOHLER CARDINAL

Component **Diesel Fuel**

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

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

Corrosion

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

Contaminants

There is a high amount of particulates present in the fuel. The water content is negligible. No evidence of fuel present in the fuel.

Fuel Condition

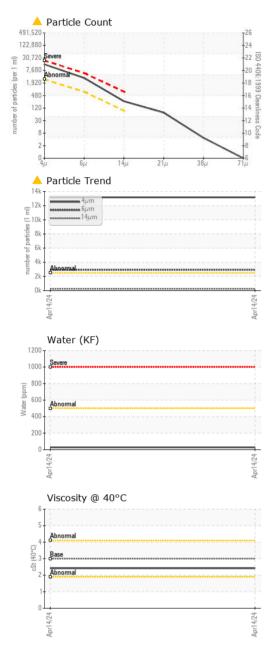
Sulfur value derived by ASTM D5453 method for ULSD validation. Sulfur level is acceptable for ULSD specification.

R) (GAL)		<u> </u>		Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901804		
Sample Date		Client Info		14 Apr 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.42		
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	0		
Sulfur (UVF)	ppm	ASTM D5453		54		
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	0.003		
ppm Water	ppm	ASTM D6304	<500	27		
% Gasoline	%	*In-House	< 0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>2500	<u> </u>		
Particles >6µm		ASTM D7647	>640	<u>^</u> 2937		
Particles >14µm		ASTM D7647	>80	<u>^</u> 226		
Particles >21µm		ASTM D7647	>20	<u>^</u> 64		
Particles >38µm Particles >71µm		ASTM D7647	>4 >3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	△ 21/19/15		
		. ,				
HEAVY METALS		method	limit/base	current	history1	history2
Aluminum Nickel	ppm	ASTM D5185m ASTM D5185m	<0.1	0		
Lead	ppm ppm	ASTM D5185m	<0.1	0		
Vanadium	ppm	ASTM D5185m		0		
Iron	ppm	ASTM D5185m	<0.1	0		
Calcium	ppm	ASTM D5185m	<0.1	1		
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
3:01:14) Hev: 1				Contac	t/Location: PAIC	E 7 - CARSHE

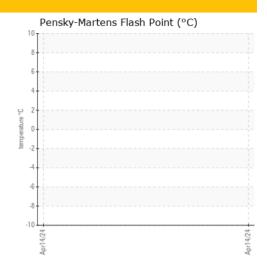
Contact/Location: PAIGE ? - CARSHE



FUEL REPORT



GRAPHS





Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0901804 Lab Number : 06149237 Unique Number : 10979315

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.

Received **Tested** Diagnosed Test Package : DF-5 (Additional Tests: Screen)

: 15 Apr 2024 : 19 Apr 2024 : 26 Apr 2024 - Angela Borella

CAROLINA POWER SOLUTION 445 W GROVER ST SHELBY, NC US 28150

Contact: PAIGE paige@carolinapowersolutions.com T: (704)481-0782

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

Contact/Location: PAIGE ? - CARSHE