

FUEL REPORT



Machine Id

117570 Component Diesel Fuel Fluid No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- QTS)

DIAGNOSIS

A Recommendation

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.

Corrosion

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

Contaminants

There is a high amount of particulates present in the fuel. Excessive free water present. There is no bacteria or fungus (yeast and/or mold) indicated in the sample.

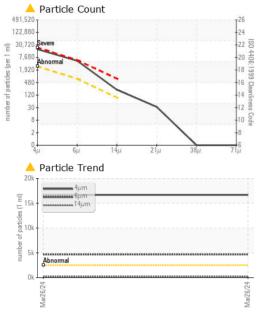
Fuel Condition

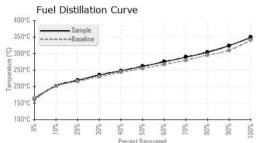
Sulfur value derived by ASTM D5453 method for ULSD validation.

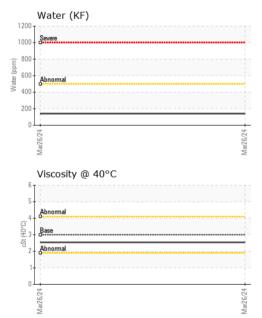
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06135408		
Sample Date		Client Info		26 Mar 2024		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298	0.839	0.845		
Fuel Color	text	*Visual Screen	Yllow	Red		
ASTM Color	scalar	*ASTM D1500		L4.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.54		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	63		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	210		
Sulfur (UVF)	ppm	ASTM D5453	10	167		
	PPIII					
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	162		
5% Distillation Point	°C	ASTM D86		191		
10% Distill Point	°C	ASTM D86	201	202		
15% Distillation Point	°C	ASTM D86		212		
20% Distill Point	°C	ASTM D86	216	219		
30% Distill Point	°C	ASTM D86	230	235		
40% Distill Point	°C	ASTM D86	243	248		
50% Distill Point	°C	ASTM D86	255	261		
60% Distill Point	°C	ASTM D86	267	275		
70% Distill Point	°C	ASTM D86	280	289		
80% Distill Point	°C	ASTM D86	295	304		
85% Distillation Point	°C	ASTM D86		314		
90% Distill Point	°C	ASTM D86	310	324		
95% Distillation Point	°C	ASTM D86		340		
Final Boiling Point	°C	ASTM D86	341	349		
Distillation Residue	%	ASTM D86	3.0	1.4		
Distillation Loss	%	ASTM D86	3.0	0.5		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D7777	37.7	36.0		
Cetane Index		ASTM D4737	<40.0	46.6		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	1		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	0.014		
ppm Water	ppm	ASTM D6304	<500	141		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



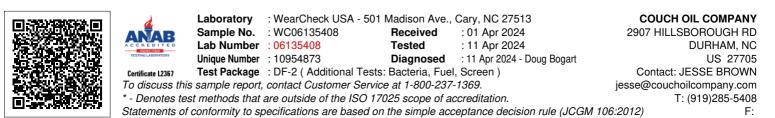
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FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	16684		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	A 21/19/15		
MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	WC-Method	>=100000	0		
Yeast	CFU/ml	WC-Method	>=100000	0		
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	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		
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



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Contact/Location: JESSE BROWN - COUDUR

Page 2 of 2