

FUEL REPORT

JOHN HATCH Machine Id NA5CA0071 (S/N KIOTI)

Component
Tank Diesel Fuel

No.2 DIESEL FUEL (ULTRALOW SULPHUR) (13 GAL)

DIAGNOSIS

Recommendation

We advise that you follow the water drain-off procedure for this component. All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel. Please note that this is a corrected copy for diagnostic comment and sample image updates. (Customer Sample Comment: Customers tractor is brand new, he used it mowing and went to the fuel station and got 5 gallons of fuel. After fueling up the machine it started to run bad. We went out and found what looked like water in the fuel. We changed the filter and tried running)

Corrosion

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

Contaminants

There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. Free water present. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel.

Fuel Condition

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

Sample Rating Trend WATER

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KT0000693		
Sample Date		Client Info		21 Sep 2023		
Machine Age	hrs	Client Info		16		
Sample Status				ATTENTION		
		mathad	limit/base	ourroat	biotomut	history
FRI SIGAL FROF	ENTIES	method	innii/base	current	nistory i	nistory2
Specific Gravity		*ASTM D1298	0.839	0.845		
Fuel Color	text	*Visual Screen	Yllow	Yllow		
ASTM Color	scalar	*ASTM D1500		L2.5		
Visc @ 40°C	cSt	ASTM D445	3.0	2.4		
Pensky-Martens Flash Point	°C	*PMCC Calculated	52	56		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185m	10	1		
Sulfur (UVF)	ppm	ASTM D5453		13		
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D86	165	155		
5% Distillation Point	°C	ASTM D86		183		
10% Distill Point	°C	ASTM D86	201	194		
15% Distillation Point	°C	ASTM D86	201	204		
20% Distill Point	°C	ASTM D86	216	212		
30% Distill Point	°C	ASTM D86	230	228		
40% Distill Point	°C	ASTM D86	243	242		
50% Distill Point	°C	ASTM D86	255	255		
60% Distill Point	°C	ASTM D86	267	268		
70% Distill Point	°C	ASTM D86	280	283		
80% Distill Point	°C	ASTM D86	295	299		
85% Distillation Point	°C	ASTM D86	200	309		
90% Distill Point	°C	ASTM D86	310	322		
95% Distillation Point	°C	ASTM D86	0.10	340		
Final Boiling Point	°C	ASTM D86	341	348		
Distillation Residue	%	ASTM D86	3.0	1.4		
Distillation Loss	%	ASTM D86	3.0	0.7		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Growity			27.7	26.0		
AFT Gravity		ASTM D/777	<10.0	30.0		
			<+0.0	75.2	Line and	history O
CONTAMINANTS		method	limit/base	current	nistory i	nistory2
Silicon	ppm	ASTM D5185m	<1.0	<1		
Sodium	ppm	ASTM D5185m	<0.1	2		
Potassium	ppm	ASTM D5185m	<0.1	0		
Water	%	ASTM D6304	< 0.05	0.020		
ppm Water	ppm	ASTM D6304	<500	201.6		
% Gasoline	%	*In-House	<0.50	0.0		
% Biodiesel	%	*In-House	<20.0	0.0		



FUEL REPORT





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Bottom





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

Pensky-Martens Flash Point (°C)



no image

no image

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