

FUEL REPORT

IR1-23486] JOHN DEERE PE4045D963656

Component Diesel Fuel

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

DIAGNOSIS

Recommendation

We advise that you filter this fluid before use. We recommend an early resample to monitor this condition.

Corrosion

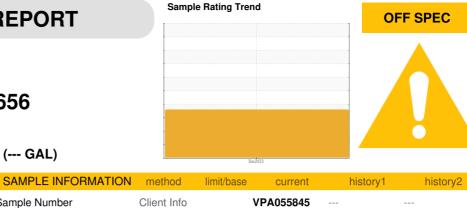
{not applicable}

Contaminants

There is a moderate amount of particulates (2 to 100 microns in size) present in the fuel. The water content is negligible.

Fuel Condition

10% Distill Point results are abnormally high. 20% Distill Point results are abnormally high. 50% Distill Point results are abnormally high. Final Boiling Point results are abnormally high. Laboratory tests indicate that this sample does NOT meet specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		VPA055845		
Sample Date		Client Info		13 Dec 2023		
Machine Age	hrs	Client Info		0		
Sample Status				ABNORMAL		
PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.823		
Fuel Color	text	Visual Screen*	Yllow	Red		
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	3.1		
Pensky-Martens Flash Point	°C	ASTM D7215*	52	70.6		
SULFUR CONTER	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	7		
	ppm	. ,			Internet and	history O
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	182		
5% Distillation Point	°C	ASTM D2887*		213		
10% Distill Point	°C	ASTM D2887*	201	<u> </u>		
15% Distillation Point	°C	ASTM D2887*		238		
20% Distill Point	°C	ASTM D2887*	216	<u> </u>		
30% Distill Point	°C	ASTM D2887*	230	266		
40% Distill Point	°C	ASTM D2887*	243	277		
50% Distill Point	°C	ASTM D2887*	255	<u> </u>		
60% Distill Point	°C	ASTM D2887*	267	294		
70% Distill Point	°C	ASTM D2887*	280	300		
80% Distill Point	°C	ASTM D2887*	295	310		
85% Distillation Point	°C	ASTM D2887*		320		
90% Distill Point	°C	ASTM D2887*	310	330		
95% Distillation Point	°C	ASTM D2887*		346		
Final Boiling Point	°C	ASTM D2887*	341	A 380		
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	40		
Cetane Index		ASTM D4737*	<40.0	63		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	0		
Sodium	ppm	ASTM D5185(m)	<0.1	<1		
Potassium	ppm	ASTM D5185(m)	<0.1	0		
Water	%	ASTM D6304*	< 0.05	0.003		
ppm Water	ppm	ASTM D6304*	<500	35		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	4736		
Particles >6µm		ASTM D7647	>640	<u> </u>		
Particles >14µm		ASTM D7647	>80	▲ 174		
Particles >21µm		ASTM D7647	>20	<u> </u>		
Particles >38µm		ASTM D7647	>4	5		
Particles >71µm		ASTM D7647		0		
Oil Cleanliness		ISO 4406 (c)	>18/16/13	↓ 19/18/15		
Un Ulcarini 1655		100 4400 (0)	210/10/13	- 19/10/13		

Contact/Location: Michelle Sayers - CULSUR

VOLVO PENTA

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