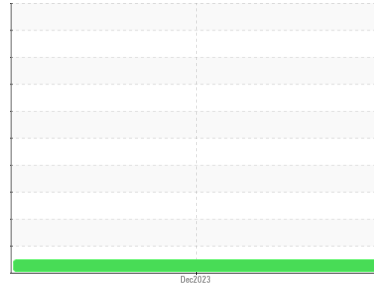


Area
[R1-23239]
 Machine Id
JOHN DEERE PE4045T94531
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)



DIAGNOSIS

Recommendation

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. Resample at the next service interval to monitor.

Corrosion

{not applicable}

Contaminants

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. There is no indication of any contamination in the diesel fuel.

Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info		VPA056208	---	---
Sample Date	Client Info		11 Dec 2023	---	---
Machine Age	hrs	Client Info	241	---	---
Sample Status			NORMAL	---	---

PHYSICAL PROPERTIES method limit/base current history1 history2

Specific Gravity		ASTM D1298*	0.839	0.830	---	---
Fuel Color	text	Visual Screen*	Yellow	Yellow	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	60.9	---	---

SULFUR CONTENT method limit/base current history1 history2

Sulfur	ppm	ASTM D5185(m)	10	7	---	---
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DISTILLATION method limit/base current history1 history2

Initial Boiling Point	°C	ASTM D2887*	165	172	---	---
5% Distillation Point	°C	ASTM D2887*		199	---	---
10% Distill Point	°C	ASTM D2887*	201	213	---	---
15% Distillation Point	°C	ASTM D2887*		224	---	---
20% Distill Point	°C	ASTM D2887*	216	234	---	---
30% Distill Point	°C	ASTM D2887*	230	253	---	---
40% Distill Point	°C	ASTM D2887*	243	267	---	---
50% Distill Point	°C	ASTM D2887*	255	281	---	---
60% Distill Point	°C	ASTM D2887*	267	289	---	---
70% Distill Point	°C	ASTM D2887*	280	298	---	---
80% Distill Point	°C	ASTM D2887*	295	310	---	---
85% Distillation Point	°C	ASTM D2887*		319	---	---
90% Distill Point	°C	ASTM D2887*	310	329	---	---
95% Distillation Point	°C	ASTM D2887*		343	---	---
Final Boiling Point	°C	ASTM D2887*	341	372	---	---

IGNITION QUALITY method limit/base current history1 history2

API Gravity		ASTM D1298*	37.7	38	---	---
Cetane Index		ASTM D4737*	<40.0	57	---	---

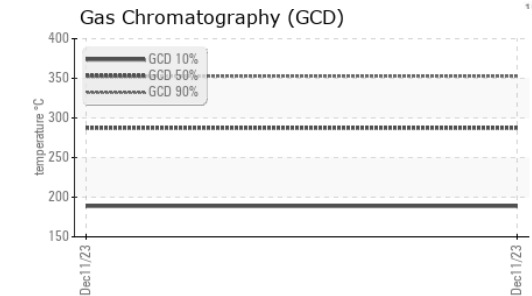
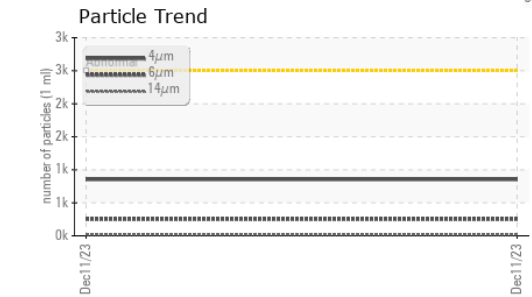
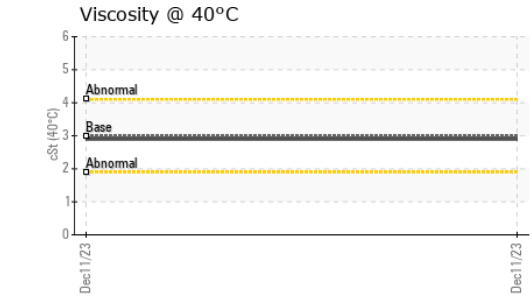
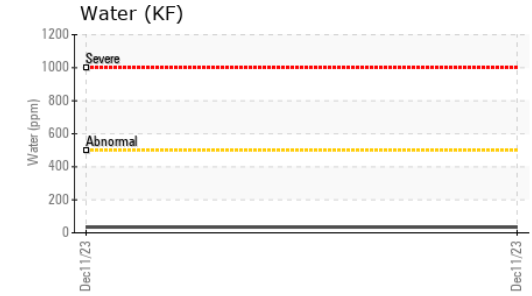
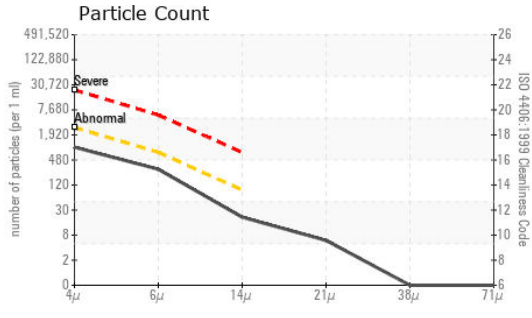
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	<1.0	0	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	0	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Water	%	ASTM D6304*	<0.05	0.003	---	---
ppm Water	ppm	ASTM D6304*	<500	35	---	---

FLUID CLEANLINESS method limit/base current history1 history2

Particles >4µm		ASTM D7647	>2500	854	---	---
Particles >6µm		ASTM D7647	>640	253	---	---
Particles >14µm		ASTM D7647	>80	18	---	---
Particles >21µm		ASTM D7647	>20	5	---	---
Particles >38µm		ASTM D7647	>4	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/15/11	---	---

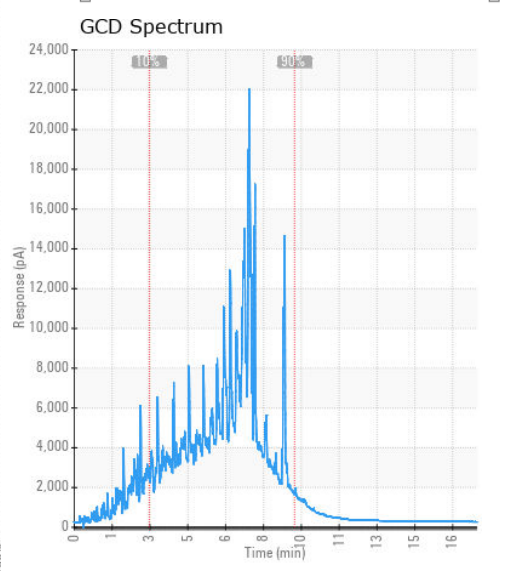
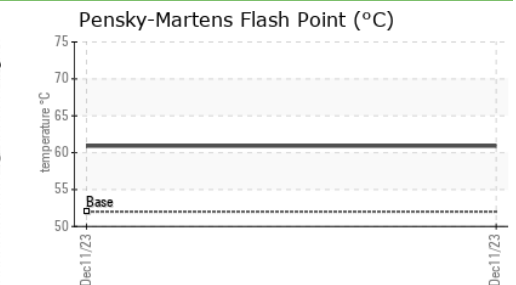
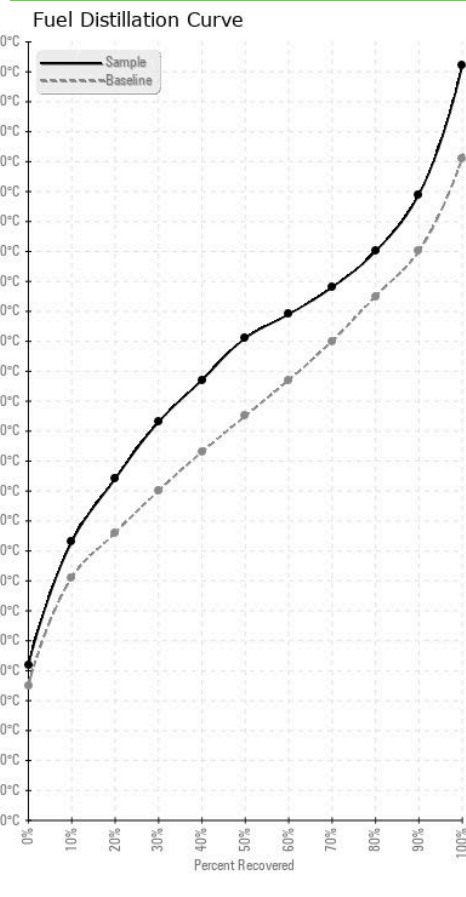
FUEL REPORT



HEAVY METALS	method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	---
Nickel	ppm	ASTM D5185(m)	<0.1	0	---
Lead	ppm	ASTM D5185(m)	<0.1	0	---
Vanadium	ppm	ASTM D5185(m)	<0.1	0	---
Iron	ppm	ASTM D5185(m)	<0.1	<1	---
Calcium	ppm	ASTM D5185(m)	<0.1	2	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	0	---
Zinc	ppm	ASTM D5185(m)	<0.1	<1	---

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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VPA056208
Lab Number : 02604766
Unique Number : 5697851
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

CULLEN DIESEL POWER - 695335
 9300 192 ST
 SURREY, BC
 CA V4N 3R8
 Contact: Michelle Sayers
 mns@cullendiesel.com
 T: (604)888-1211
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.