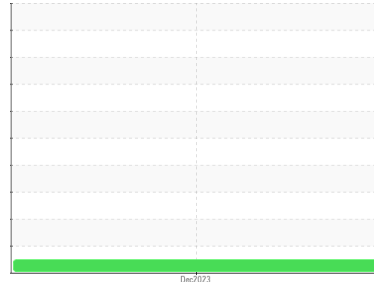


Area
[R1-22832]
 Machine Id
MTU 95010500148
 Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (70 LTR)



DIAGNOSIS

Recommendation
 The fuel change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Corrosion
 {not applicable}

Contaminants
 The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible.

Fuel Condition
 Additive levels indicate the addition of a different brand, or type of fuel. 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			VPA050720	---	---
Sample Date	Client Info			06 Dec 2023	---	---
Machine Age	hrs	Client Info		115	---	---
Sample Status				NORMAL	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.832	---	---
Fuel Color	text	Visual Screen*	Yellow	Pink	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.5	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	58.2	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	9	---	---

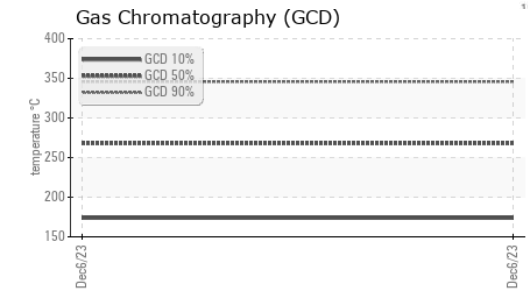
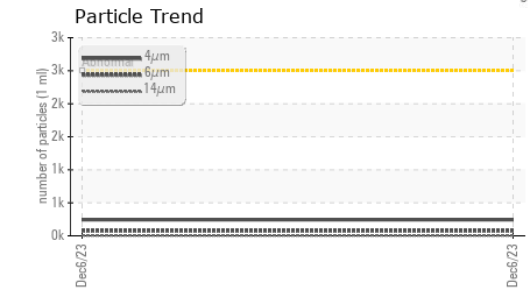
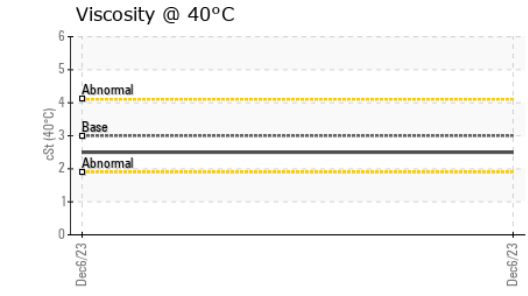
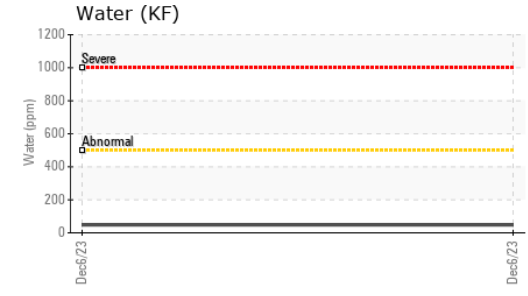
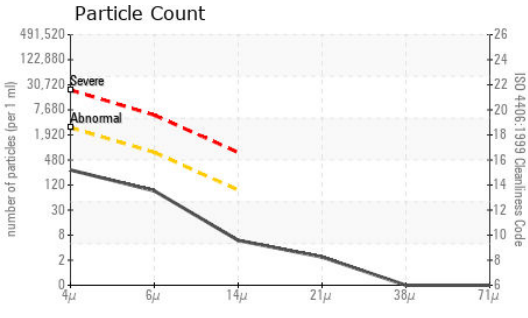
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	167	---	---
5% Distillation Point	°C	ASTM D2887*		187	---	---
10% Distill Point	°C	ASTM D2887*	201	196	---	---
15% Distillation Point	°C	ASTM D2887*		204	---	---
20% Distill Point	°C	ASTM D2887*	216	213	---	---
30% Distill Point	°C	ASTM D2887*	230	231	---	---
40% Distill Point	°C	ASTM D2887*	243	247	---	---
50% Distill Point	°C	ASTM D2887*	255	264	---	---
60% Distill Point	°C	ASTM D2887*	267	277	---	---
70% Distill Point	°C	ASTM D2887*	280	291	---	---
80% Distill Point	°C	ASTM D2887*	295	305	---	---
85% Distillation Point	°C	ASTM D2887*		314	---	---
90% Distill Point	°C	ASTM D2887*	310	324	---	---
95% Distillation Point	°C	ASTM D2887*		340	---	---
Final Boiling Point	°C	ASTM D2887*	341	373	---	---

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	38	---	---
Cetane Index		ASTM D4737*	<40.0	51	---	---

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	0.004	---	---
ppm Water	ppm	ASTM D6304*	<500	48	---	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	243	---	---
Particles >6µm		ASTM D7647	>640	77	---	---
Particles >14µm		ASTM D7647	>80	5	---	---
Particles >21µm		ASTM D7647	>20	2	---	---
Particles >38µm		ASTM D7647	>4	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	15/13/10	---	---

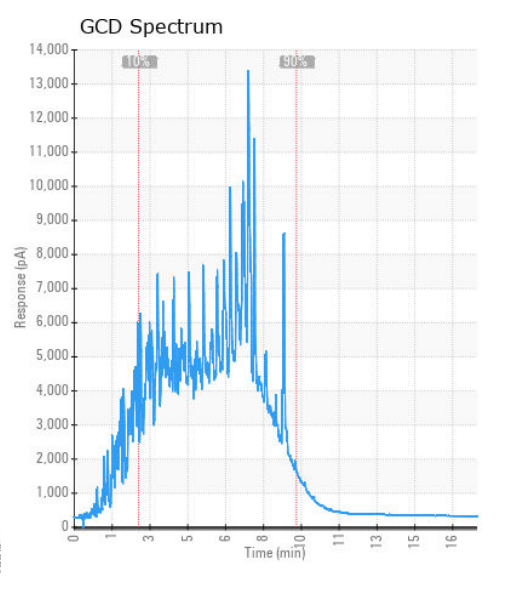
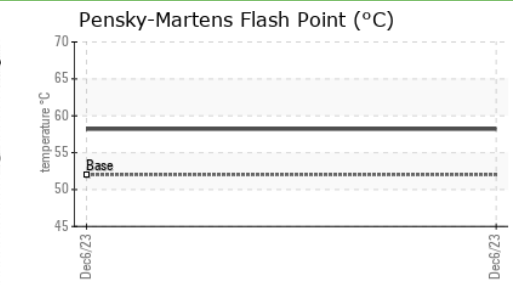
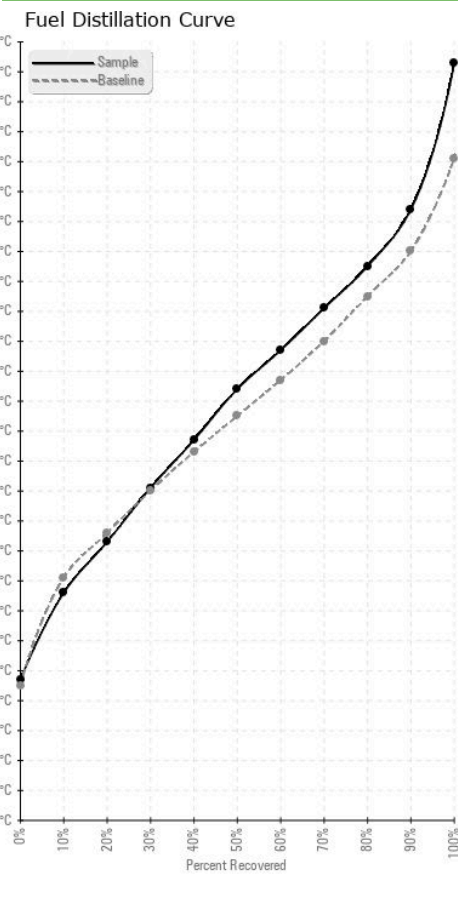
FUEL REPORT



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	0	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	0	---
Zinc	ppm	ASTM D5185(m)	<0.1	0	---

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. : VPA050720
Lab Number : 02604767
Unique Number : 5697852
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)
 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.

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