

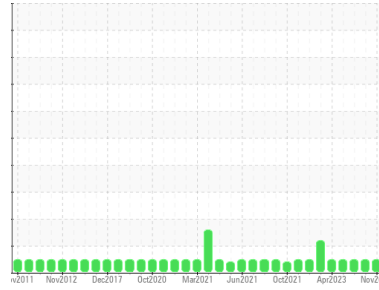
FUEL REPORT

Sample Rating Trend

NORMAL



Area
[450222451]
Machine Id
TB-62203 EMG
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (LOW-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 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC	PC	PC
Sample Date	Client Info			06 Nov 2023	14 Aug 2023	19 Jul 2023
Machine Age	hrs Client Info			0	0	0
Sample Status				NORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.839	0.847	0.847	0.847	
Fuel Color	text Visual Screen*	Yellow	Orang	Orang	Yellow	
Visc @ 40°C	cSt ASTM D7279(m)	3.0	2.9	3	3	
Pensky-Martens Flash Point	°C ASTM D7215*	52	62.7	64.1	64.3	

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185(m)	250	115	151	160	

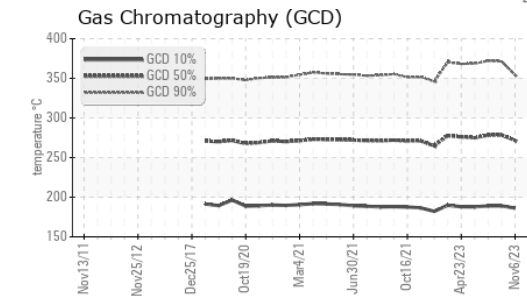
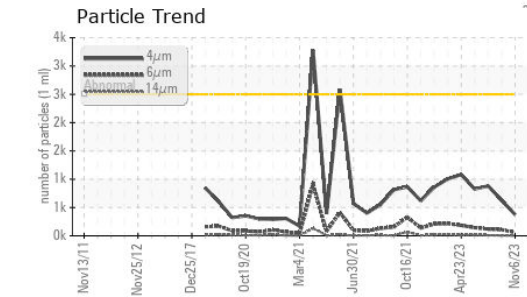
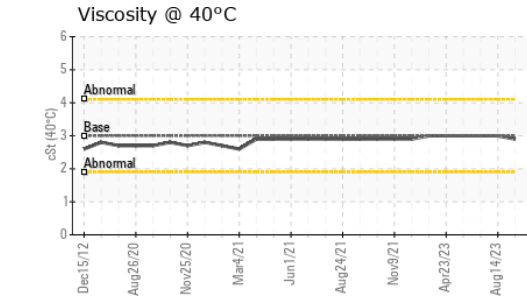
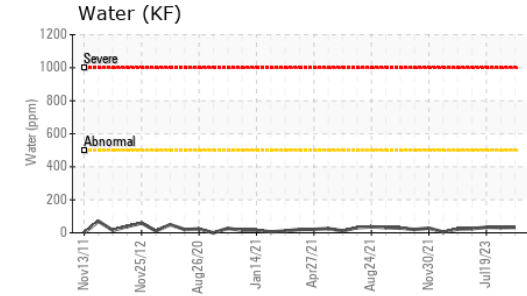
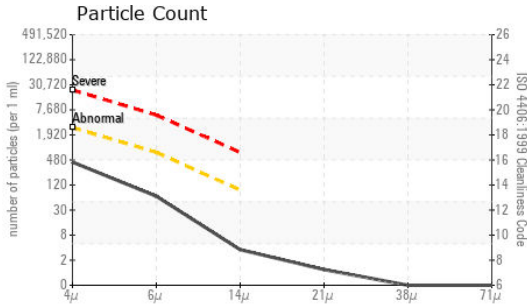
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	174	176	176
5% Distillation Point	°C	ASTM D2887*		198	201	201
10% Distill Point	°C	ASTM D2887*	201	210	212	212
15% Distillation Point	°C	ASTM D2887*		219	221	221
20% Distill Point	°C	ASTM D2887*	216	227	230	230
30% Distill Point	°C	ASTM D2887*	230	243	247	246
40% Distill Point	°C	ASTM D2887*	243	255	261	261
50% Distill Point	°C	ASTM D2887*	255	268	275	275
60% Distill Point	°C	ASTM D2887*	267	282	290	290
70% Distill Point	°C	ASTM D2887*	280	295	306	306
80% Distill Point	°C	ASTM D2887*	295	311	324	324
85% Distillation Point	°C	ASTM D2887*		322	337	338
90% Distill Point	°C	ASTM D2887*	310	334	351	352
95% Distillation Point	°C	ASTM D2887*		353	376	376
Final Boiling Point	°C	ASTM D2887*	341	383	396	396

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	35	35	35	
Cetane Index	ASTM D4737*	<40.0	47	49	49	

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	<1.0	0	0	0	
Sodium	ppm ASTM D5185(m)	<0.1	0	0	0	
Potassium	ppm ASTM D5185(m)	<0.1	<1	<1	<1	
Water	% ASTM D6304*	<0.05	0.003	0.003	0.003	
ppm Water	ppm ASTM D6304*	<500	33	31.9	33.9	

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	376	628	880	
Particles >6µm	ASTM D7647	>640	57	108	119	
Particles >14µm	ASTM D7647	>80	3	6	10	
Particles >21µm	ASTM D7647	>20	1	1	3	
Particles >38µm	ASTM D7647	>4	0	0	0	
Particles >71µm	ASTM D7647	>3	0	0	0	
Oil Cleanliness	ISO 4406 (c)	>18/16/13	16/13/9	16/14/10	17/14/10	

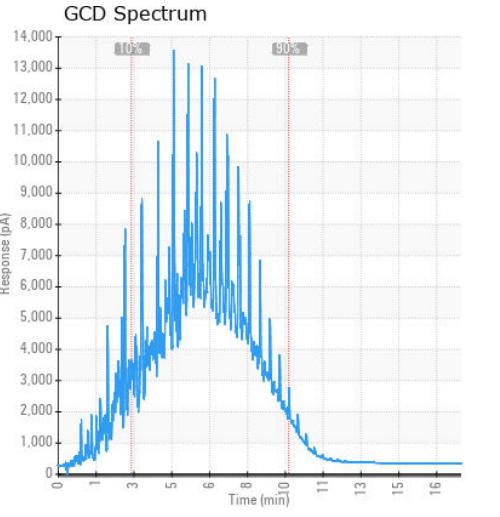
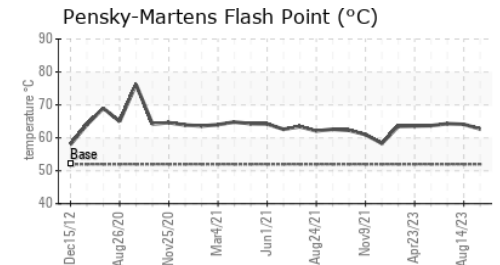
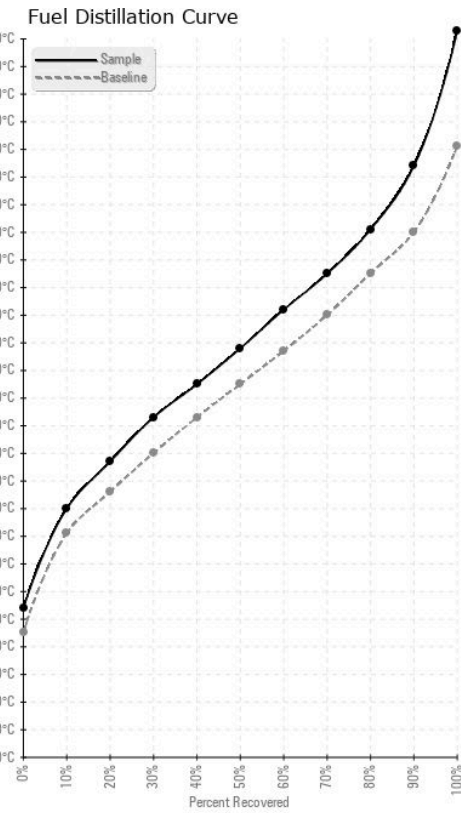
FUEL REPORT



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

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02604265
Unique Number : 5697350
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)
Received : 19 Dec 2023
Diagnosed : 22 Dec 2023
Diagnostician : Kevin Marson

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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.