



FUEL REPORT

CORROSION	NORMAL
CONTAMINANTS	ABNORMAL
FUEL CONDITION	NORMAL

Area
[365494]
 Machine Id
1M2AX13C8FM028668

Component
Diesel Fuel
 Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

RECOMMENDATION

Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you filter this fluid before use. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886640	---	---
Sample Date		Client Info		15 Dec 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Sample Status				ABNORMAL	---	---

CORROSION

{not applicable}

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	---	---

CONTAMINANTS

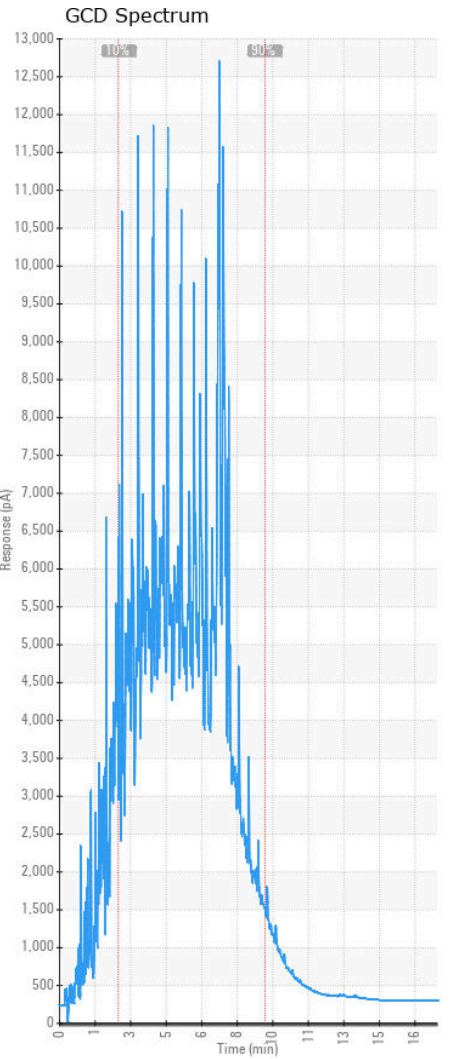
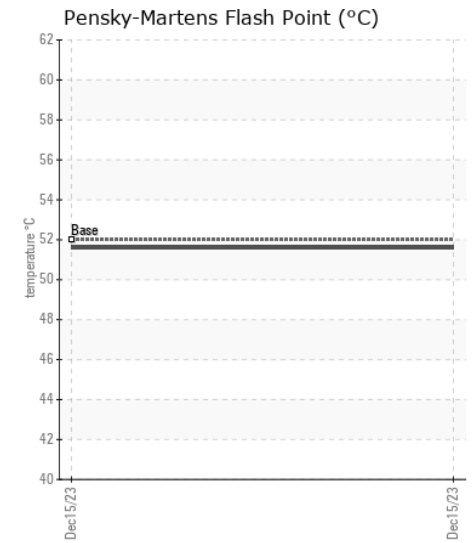
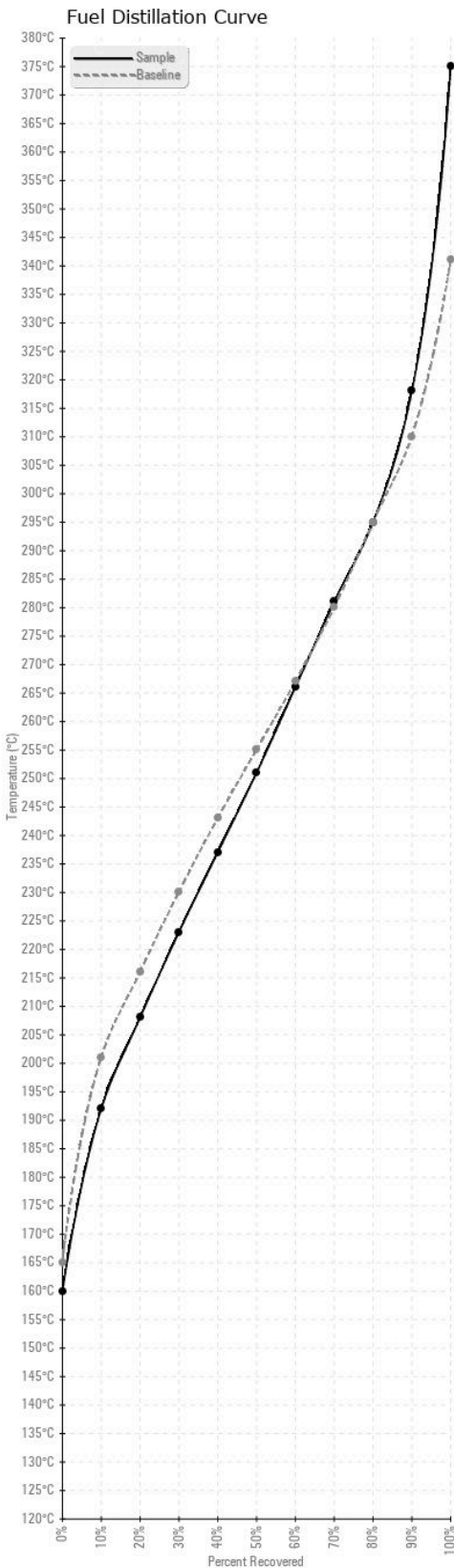
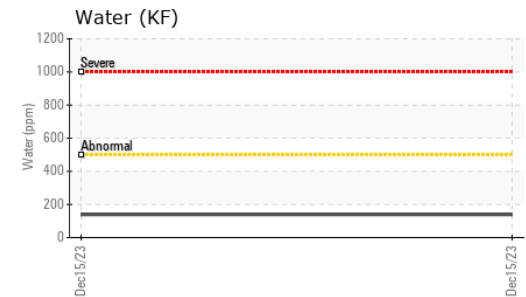
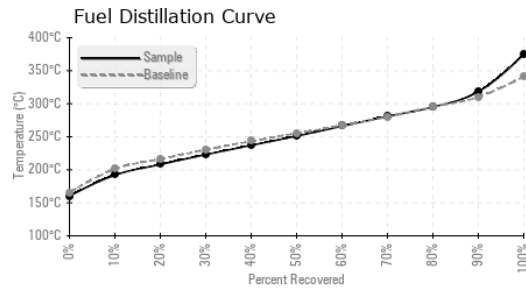
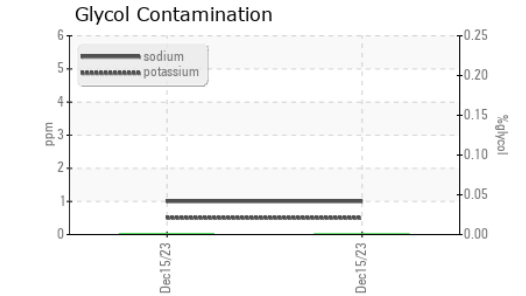
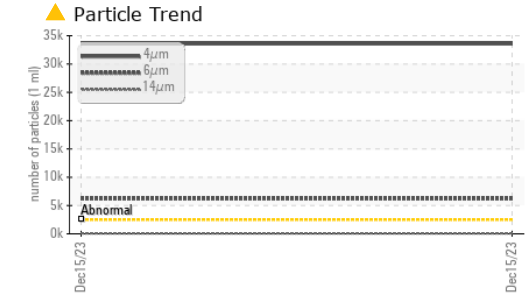
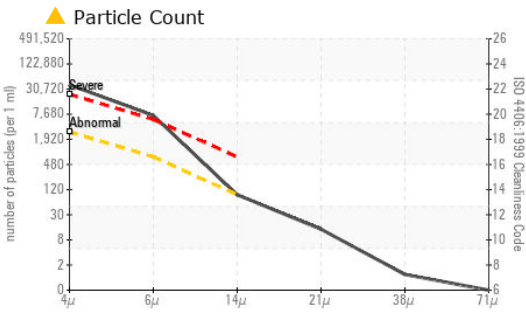
There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

Silicon	ppm	ASTM D5185(m)	<1.0	<1	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	1	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Water	%	ASTM D6304*	<0.05	0.013	---	---
ppm Water	ppm	ASTM D6304*	<500	139	---	---
Particles >4µm		ASTM D7647	>2500	▲ 33575	---	---
Particles >6µm		ASTM D7647	>640	▲ 6211	---	---
Particles >14µm		ASTM D7647	>80	80	---	---
Particles >21µm		ASTM D7647	>20	12	---	---
Particles >38µm		ASTM D7647	>4	1	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 22/20/13	---	---
Calcium	ppm	ASTM D5185(m)	<0.1	<1	---	---
Magnesium	ppm	ASTM D5185(m)	<0.1	0	---	---
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	---	---
Zinc	ppm	ASTM D5185(m)	<0.1	<1	---	---

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). The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Specific Gravity		ASTM D1298*	0.839	0.823	---	---
Fuel Color	text	Visual Screen*	Yellow	Yellow	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.2	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	51.6	---	---
Sulfur	ppm	ASTM D5185(m)	10	6	---	---
Initial Boiling Point	°C	ASTM D2887*	165	160	---	---
10% Distill Point	°C	ASTM D2887*	201	192	---	---
20% Distill Point	°C	ASTM D2887*	216	208	---	---
30% Distill Point	°C	ASTM D2887*	230	223	---	---
40% Distill Point	°C	ASTM D2887*	243	237	---	---
50% Distill Point	°C	ASTM D2887*	255	251	---	---
60% Distill Point	°C	ASTM D2887*	267	266	---	---
70% Distill Point	°C	ASTM D2887*	280	281	---	---
80% Distill Point	°C	ASTM D2887*	295	295	---	---
90% Distill Point	°C	ASTM D2887*	310	318	---	---
Final Boiling Point	°C	ASTM D2887*	341	375	---	---
API Gravity		ASTM D1298*	37.7	40	---	---
Cetane Index		ASTM D4737*	<40.0	52	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0886640 **Received** : 20 Dec 2023
Lab Number : 02604541 **Diagnosed** : 16 Jan 2024
Unique Number : 5697626 **Diagnostician** : Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, GLYCOL, PrtCount)

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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.