

Area
COMPASS DATA [154382]

Machine Id
3D
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		CU0022836	---	---
Sample Date		Client Info		28 May 2024	---	---
Machine Age	hrs	Client Info		77	---	---
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	0	---	---

CONTAMINANTS

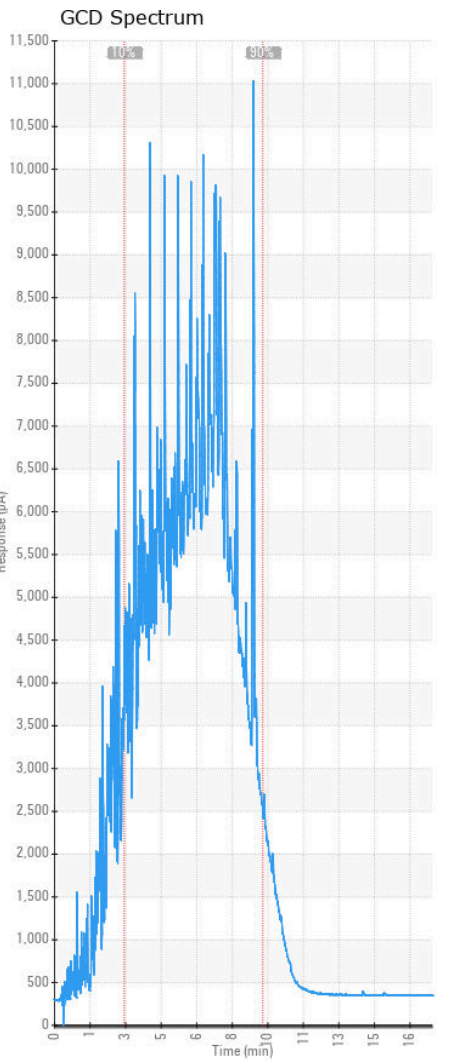
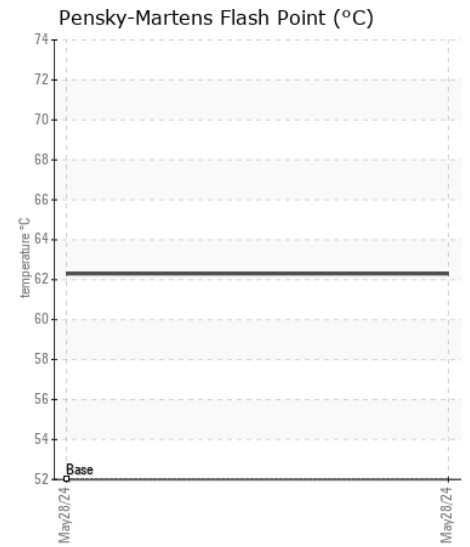
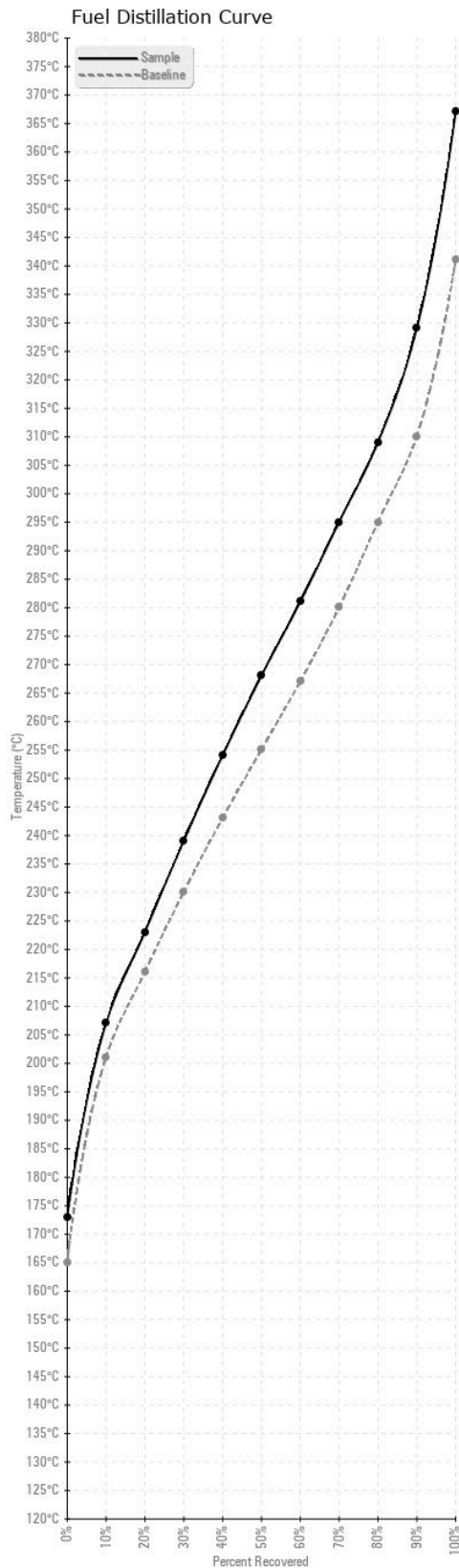
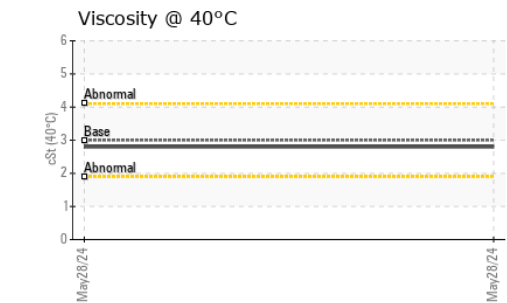
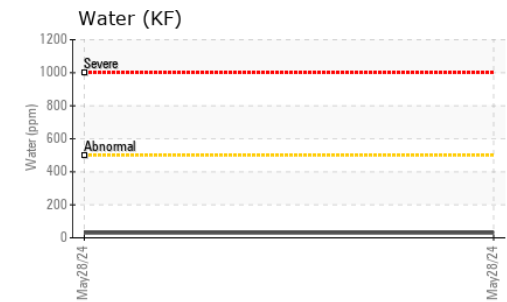
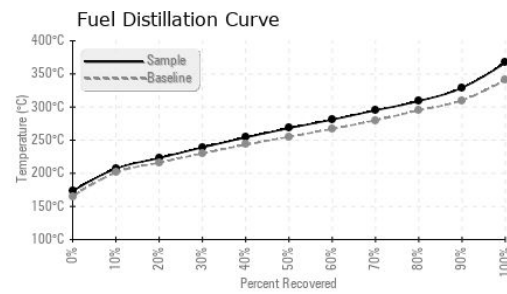
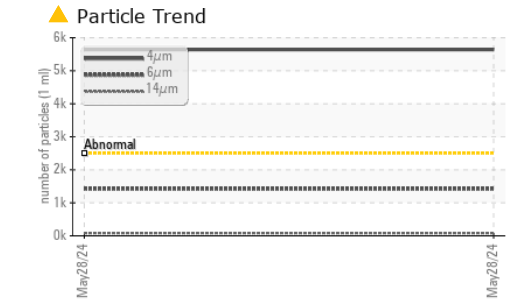
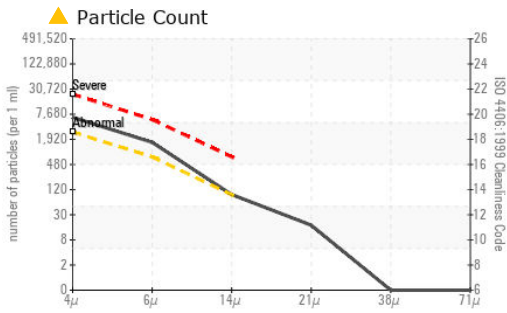
There is a moderate amount of silt (particulates < 14 microns in size) present in the fuel. The water content is negligible.

Silicon	ppm	ASTM D5185(m)	<1.0	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	30	---	---
Particles >4µm		ASTM D7647	>2500	▲ 5639	---	---
Particles >6µm		ASTM D7647	>640	▲ 1425	---	---
Particles >14µm		ASTM D7647	>80	● 81	---	---
Particles >21µm		ASTM D7647	>20	15	---	---
Particles >38µm		ASTM D7647	>4	0	---	---
Particles >71µm		ASTM D7647	>3	0	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 20/18/14	---	---
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	4	---	---

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	0.846	---	---
Fuel Color	text	Visual Screen*	Yellow	Pink	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.8	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	52	62.3	---	---
Sulfur	ppm	ASTM D5185(m)	10	10	---	---
Initial Boiling Point	°C	ASTM D2887*	165	173	---	---
10% Distill Point	°C	ASTM D2887*	201	207	---	---
20% Distill Point	°C	ASTM D2887*	216	223	---	---
30% Distill Point	°C	ASTM D2887*	230	239	---	---
40% Distill Point	°C	ASTM D2887*	243	254	---	---
50% Distill Point	°C	ASTM D2887*	255	268	---	---
60% Distill Point	°C	ASTM D2887*	267	281	---	---
70% Distill Point	°C	ASTM D2887*	280	295	---	---
80% Distill Point	°C	ASTM D2887*	295	309	---	---
90% Distill Point	°C	ASTM D2887*	310	329	---	---
Final Boiling Point	°C	ASTM D2887*	341	367	---	---
API Gravity		ASTM D1298*	37.7	35	---	---
Cetane Index		ASTM D4737*	<40.0	47	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0022836
Lab Number : 02640910
Unique Number : 5798449
Test Package : FUEL (Additional Tests: CC Flash, 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.