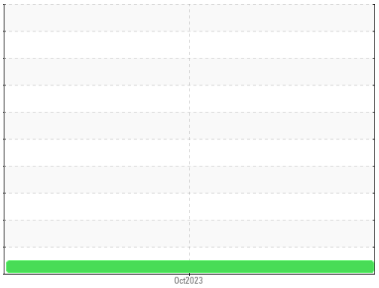
FUEL REPORT

Sample Rating Trend



NORMAL

Machine Id
MPG B
Component
Diesel Fuel
Fluid
DIESEL FUEL No. 2 (--- LTR)

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
There is no bacteria or fungus (yeast and/or mold) present in the sample. 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		**PP**	---	---
Sample Date		Client Info		**29 Oct 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Sample Status				**NORMAL**	---	---

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.850	**0.837**	---	---
Fuel Color	text	Visual Screen*	YELLO	**YIlow**	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	4.1	**2.8**	---	---
Pensky-Martens Flash Point	°C	ASTM D7215*	40	**64.7**	---	---
Cloud Point	°C	ASTM D2500*		**-12**	---	---

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)		**6**	---	---

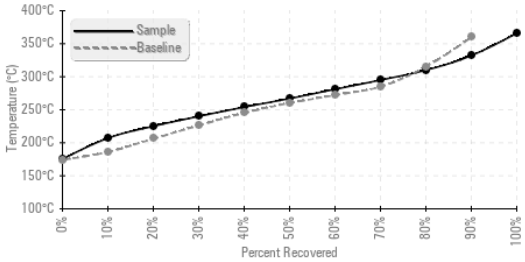
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	174	**175**	---	---
5% Distillation Point	°C	ASTM D2887*		**196**	---	---
10% Distill Point	°C	ASTM D2887*	186	**207**	---	---
15% Distillation Point	°C	ASTM D2887*		**216**	---	---
20% Distill Point	°C	ASTM D2887*	206	**225**	---	---
30% Distill Point	°C	ASTM D2887*	226	**240**	---	---
40% Distill Point	°C	ASTM D2887*	245	**254**	---	---
50% Distill Point	°C	ASTM D2887*	260	**267**	---	---
60% Distill Point	°C	ASTM D2887*	272	**281**	---	---
70% Distill Point	°C	ASTM D2887*	285	**295**	---	---
80% Distill Point	°C	ASTM D2887*	315	**310**	---	---
85% Distillation Point	°C	ASTM D2887*		**321**	---	---
90% Distill Point	°C	ASTM D2887*	360	**332**	---	---
95% Distillation Point	°C	ASTM D2887*		**350**	---	---
Final Boiling Point	°C	ASTM D2887*	>360	**366**	---	---

IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	35.0	**37**	---	---
Cetane Index	ASTM D4737*	<40.0	**51**	---	---

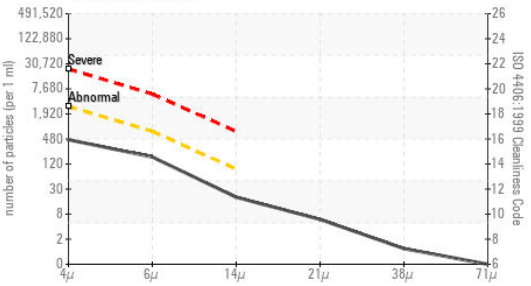
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	**0**	---	---
Sodium	ppm	ASTM D5185(m)	<0.1	**0**	---	---
Potassium	ppm	ASTM D5185(m)	<0.1	**<1**	---	---
Water	%	ASTM D6304*	<0.05	**0.002**	---	---
ppm Water	ppm	ASTM D6304*	<500	**23.6**	---	---
Sediment	%	ASTM D1796(e)*	<0.05	**0.118**	---	---

FUEL REPORT

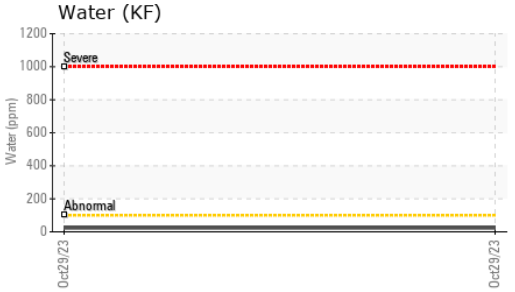
Fuel Distillation Curve



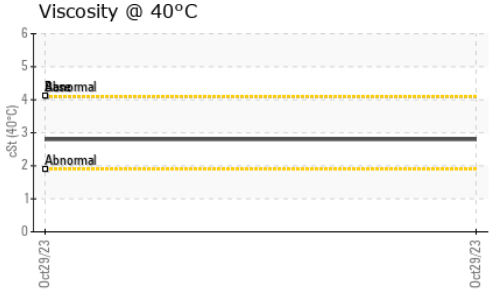
Particle Count



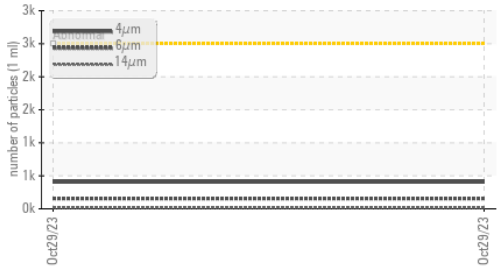
Water (KF)



Viscosity @ 40°C



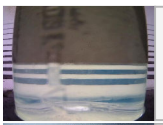
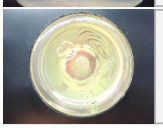
Particle Trend



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**406**	---	---
Particles >6µm		ASTM D7647	>640	**156**	---	---
Particles >14µm		ASTM D7647	>80	**17**	---	---
Particles >21µm		ASTM D7647	>20	**5**	---	---
Particles >38µm		ASTM D7647	>4	**1**	---	---
Particles >71µm		ASTM D7647	>3	**0**	---	---
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**16/14/11**	---	---

MICROBIAL		method	limit/base	current	history1	history2
Bacteria	CFU/ml	ASTM D6469*	>=100000	**0**	---	---
Yeast	CFU/ml	ASTM D6469*	>=100000	**0**	---	---
Mold	Colonies	ASTM D6469*	MODER	**NONE**	---	---

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*

ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PP
Lab Number : 02592777
Unique Number : 5669856
Test Package : FUEL (Additional Tests: Bacteria, CC Flash, CldPt, GC-PercFuel, PrtCount, Sediment)

Received : 30 Oct 2023
Diagnosed : 03 Nov 2023
Diagnostician : Kevin Marson

HIBERNIA MGMT & DEVELOPMENT CO. LTD
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Contact: Sam Nash
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F: (709)722-3766

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.