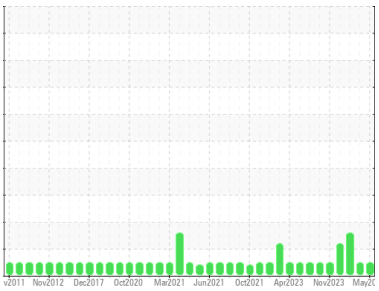
FUEL REPORT

Sample Rating Trend



NORMAL

Area
[450339531]
Machine Id
TB-62203 EMG
Component
Diesel Fuel
Fluid
MARINE DIESEL DMA (--- 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.

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
The condition of the fuel is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC**	PC	PC0076267
Sample Date		Client Info		**21 May 2024**	29 Jan 2024	08 Dec 2023
Machine Age	hrs	Client Info		**0**	0	0
Sample Status				**NORMAL**	NORMAL	ATTENTION

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.869	**0.847**	0.847	0.847
Fuel Color	text	Visual Screen*	Clear	**Pink**	Orang	Pink
Visc @ 40°C	cSt	ASTM D7279(m)	5.74	**3**	2.9	2.9
Pensky-Martens Flash Point	°C	ASTM D7215*	73.0	**62.9**	62.5	63.4

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	730	**108**	126	122

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	171	**174**	173	175
5% Distillation Point	°C	ASTM D2887*		**199**	198	200
10% Distill Point	°C	ASTM D2887*	214	**210**	210	211
15% Distillation Point	°C	ASTM D2887*		**219**	219	220
20% Distill Point	°C	ASTM D2887*		**227**	227	229
30% Distill Point	°C	ASTM D2887*		**243**	243	245
40% Distill Point	°C	ASTM D2887*		**257**	257	258
50% Distill Point	°C	ASTM D2887*	323	**270**	270	272
60% Distill Point	°C	ASTM D2887*		**285**	285	287
70% Distill Point	°C	ASTM D2887*		**299**	299	301
80% Distill Point	°C	ASTM D2887*		**317**	316	318
85% Distillation Point	°C	ASTM D2887*		**331**	329	331
90% Distill Point	°C	ASTM D2887*	398	**344**	341	344
95% Distillation Point	°C	ASTM D2887*		**368**	363	366
Final Boiling Point	°C	ASTM D2887*	415	**399**	384	387

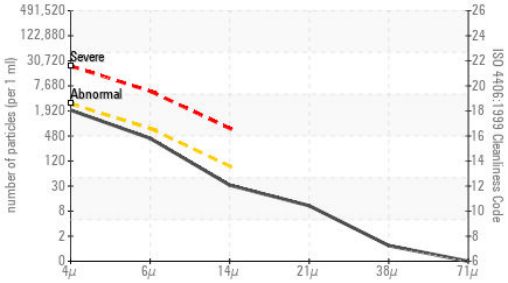
IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*		**35**	35	35
Cetane Index	ASTM D4737*	<40.0	**48**	48	48

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	**0**	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	**<1**	<1	<1
Potassium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Water	%	ASTM D6304*	<0.05	**0.003**	0.002	0.003
ppm Water	ppm	ASTM D6304*	<500	**34**	24	30

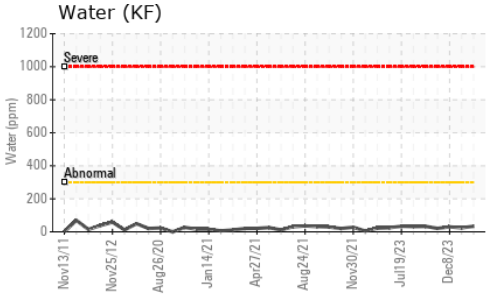
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	**1753**	203	3565
Particles >6µm		ASTM D7647	>640	**370**	31	1016
Particles >14µm		ASTM D7647	>80	**28**	3	88
Particles >21µm		ASTM D7647	>20	**9**	1	28
Particles >38µm		ASTM D7647	>4	**1**	1	2
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	**18/16/12**	15/12/9	19/17/14

FUEL REPORT

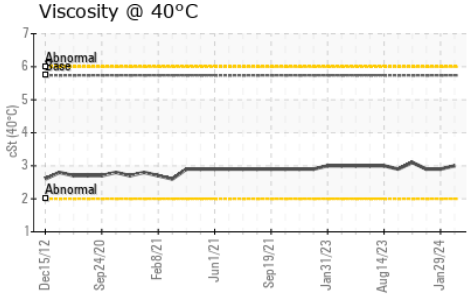
Particle Count



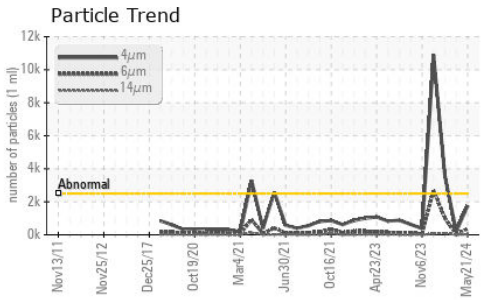
Water (KF)



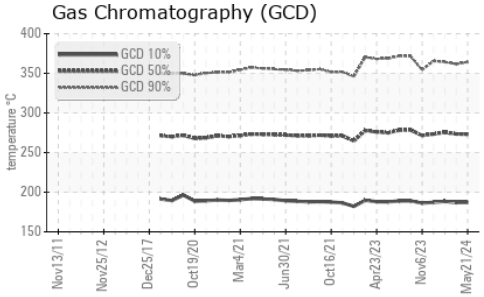
Viscosity @ 40°C



Particle Trend



Gas Chromatography (GCD)

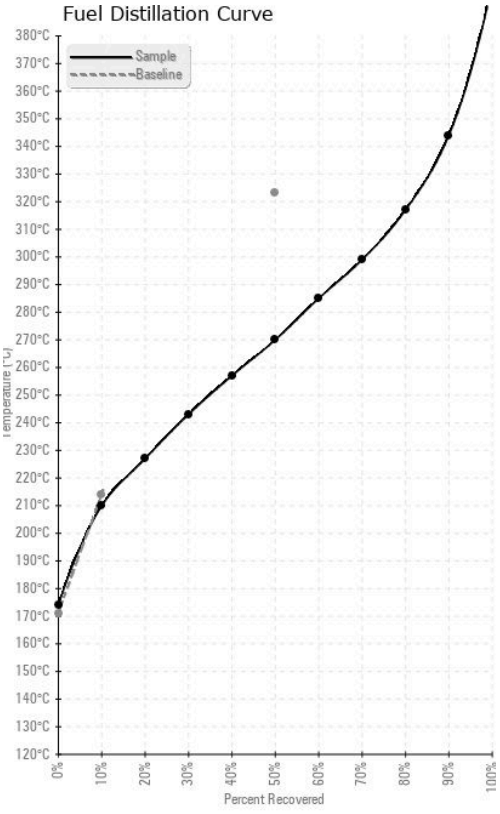


HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Lead	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Vanadium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Iron	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Calcium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Magnesium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

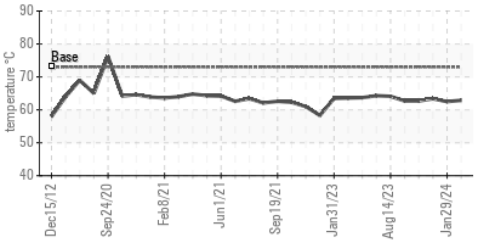
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

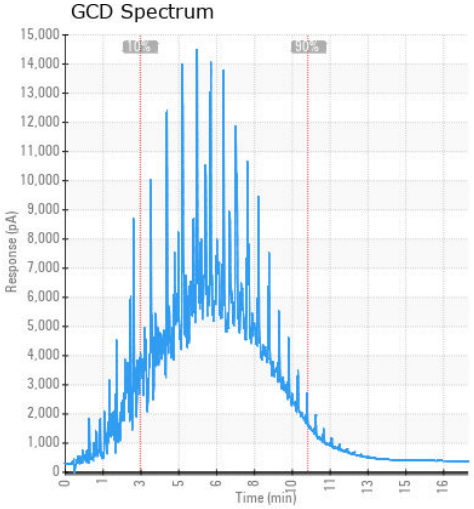
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02640244
Unique Number : 5789406
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)

Received : 06 Jun 2024
Tested : 10 Jun 2024
Diagnosed : 10 Jun 2024 - Kevin Marson

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.

Suncor - Terra Nova Projects
Scotia Centre, 235 Water Strret
St. John`s, NL
CA A1C 1B6
Contact: Josh Hynes
joshynes@suncor.com
T: (709)778-3575
F: (709)724-2835