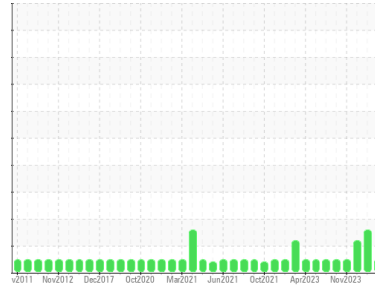


FUEL REPORT

Sample Rating Trend



NORMAL



Area
[450258408]
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	PC0076267	PC0052484
Sample Date	Client Info			29 Jan 2024	08 Dec 2023	12 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	ATTENTION	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.869	0.847	0.847	0.846
Fuel Color	text	Visual Screen*	Clear	Orang	Pink	Yellow
Visc @ 40°C	cSt	ASTM D7279(m)	5.74	2.9	2.9	3.1
Pensky-Martens Flash Point	°C	ASTM D7215*	73.0	62.5	63.4	62.7

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	730	126	122	130

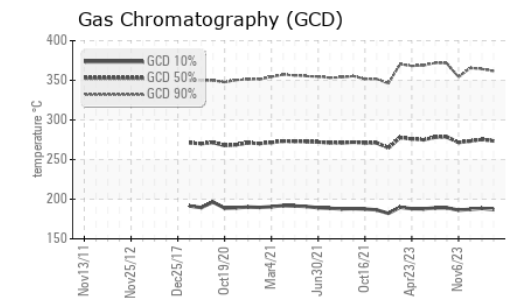
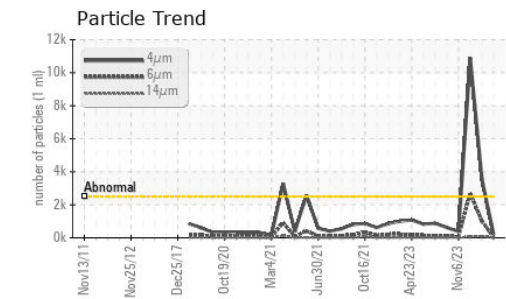
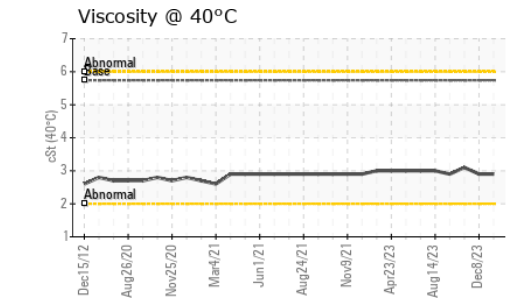
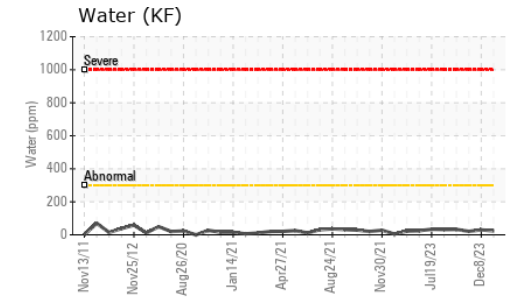
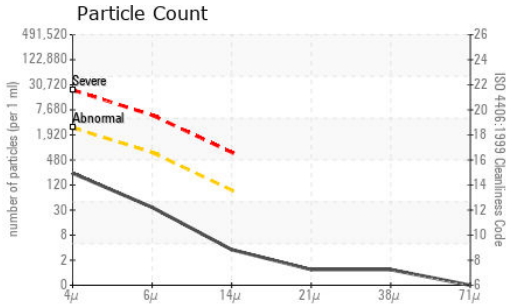
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	171	173	175	174
5% Distillation Point	°C	ASTM D2887*		198	200	199
10% Distill Point	°C	ASTM D2887*	214	210	211	210
15% Distillation Point	°C	ASTM D2887*		219	220	219
20% Distill Point	°C	ASTM D2887*		227	229	228
30% Distill Point	°C	ASTM D2887*		243	245	243
40% Distill Point	°C	ASTM D2887*		257	258	257
50% Distill Point	°C	ASTM D2887*	323	270	272	270
60% Distill Point	°C	ASTM D2887*		285	287	285
70% Distill Point	°C	ASTM D2887*		299	301	300
80% Distill Point	°C	ASTM D2887*		316	318	318
85% Distillation Point	°C	ASTM D2887*		329	331	331
90% Distill Point	°C	ASTM D2887*	398	341	344	345
95% Distillation Point	°C	ASTM D2887*		363	366	370
Final Boiling Point	°C	ASTM D2887*	415	384	387	396

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	0
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	<1
Water	%	ASTM D6304*	<0.05	0.002	0.003	0.002
ppm Water	ppm	ASTM D6304*	<500	24	30	21

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	203	▲ 3565	▲ 10890
Particles >6µm		ASTM D7647	>640	31	▲ 1016	▲ 2695
Particles >14µm		ASTM D7647	>80	3	▲ 88	62
Particles >21µm		ASTM D7647	>20	1	28	7
Particles >38µm		ASTM D7647	>4	1	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	15/12/9	▲ 19/17/14	▲ 21/19/13

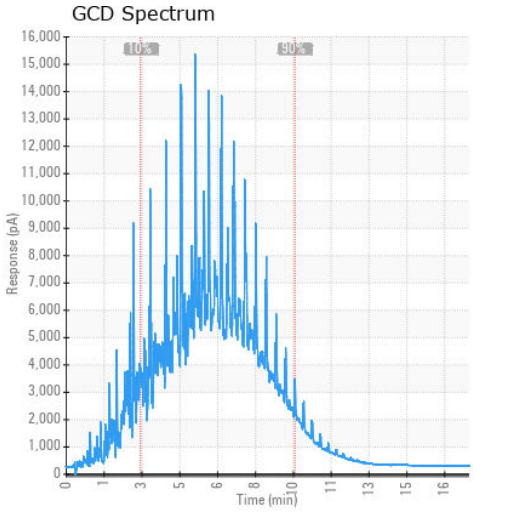
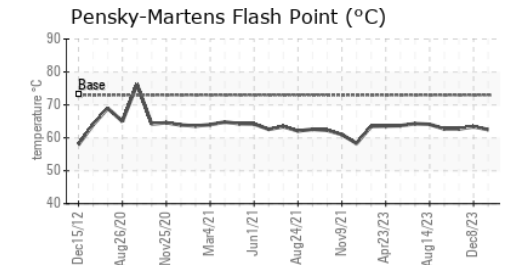
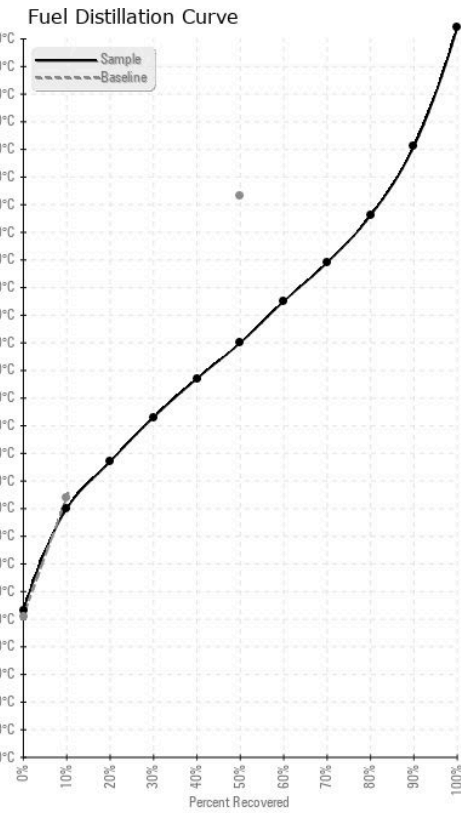
FUEL REPORT



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	0	0	<1
Calcium	ppm	ASTM D5185(m)	<0.1	0	0	0
Magnesium	ppm	ASTM D5185(m)	<0.1	0	0	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	<1	0	<1
Zinc	ppm	ASTM D5185(m)	<0.1	<1	0	<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 **Received** : 16 Feb 2024
Lab Number : 02616484 **Tested** : 21 Feb 2024
Unique Number : 5733594 **Diagnosed** : 21 Feb 2024 - Kevin Marson
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

Suncor - Terra Nova Projects
 Scotia Centre, 235 Water Street
 St. John's, NL
 CA A1C 1B6
 Contact: Josh Hynes
 joshhynes@suncor.com
 T: (709)778-3575
 F: (709)724-2835

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.