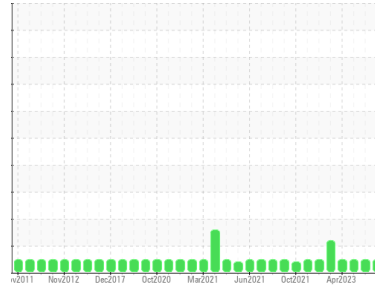


FUEL REPORT

Sample Rating Trend



NORMAL



Area
[450188457]
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.

Corrosion

{not applicable}

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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC	PC	PC
Sample Date	Client Info			14 Aug 2023	19 Jul 2023	25 May 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	NORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.869	0.847	0.847	0.849
Fuel Color	text	Visual Screen*	Clear	Orang	Yellow	Yellow
Visc @ 40°C	cSt	ASTM D7279(m)	5.74	3	3	3
Pensky-Martens Flash Point	°C	ASTM D7215*	73.0	64.1	64.3	63.7

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	730	151	160	164

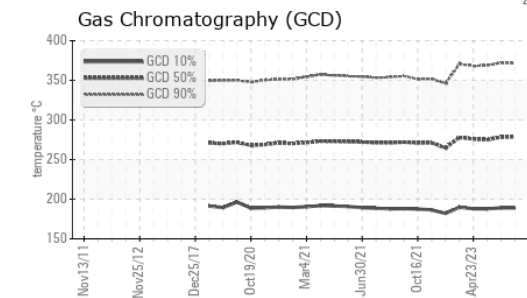
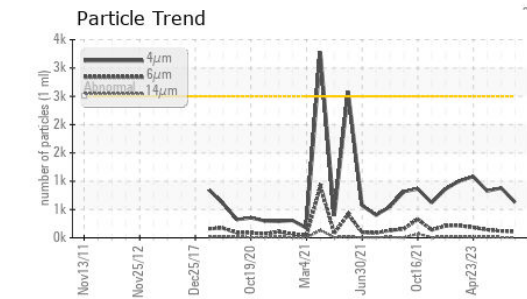
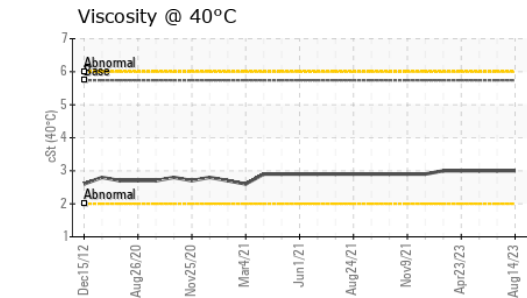
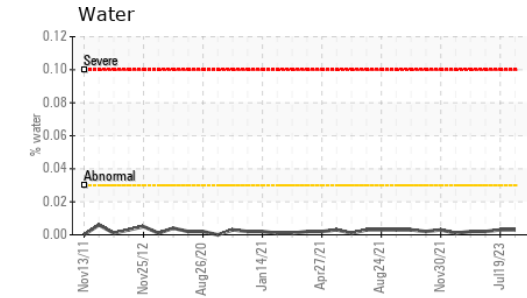
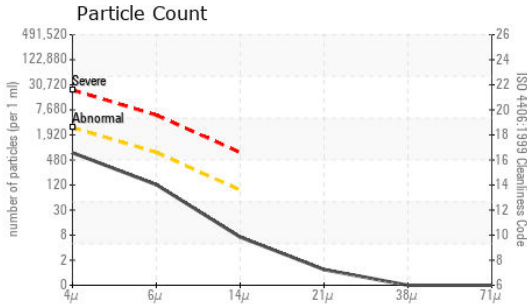
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	171	176	176	175
5% Distillation Point	°C	ASTM D2887*		201	201	199
10% Distill Point	°C	ASTM D2887*	214	212	212	211
15% Distillation Point	°C	ASTM D2887*		221	221	219
20% Distill Point	°C	ASTM D2887*		230	230	228
30% Distill Point	°C	ASTM D2887*		247	246	244
40% Distill Point	°C	ASTM D2887*		261	261	258
50% Distill Point	°C	ASTM D2887*	323	275	275	272
60% Distill Point	°C	ASTM D2887*		290	290	287
70% Distill Point	°C	ASTM D2887*		306	306	302
80% Distill Point	°C	ASTM D2887*		324	324	321
85% Distillation Point	°C	ASTM D2887*		337	338	335
90% Distill Point	°C	ASTM D2887*	398	351	352	349
95% Distillation Point	°C	ASTM D2887*		376	376	374
Final Boiling Point	°C	ASTM D2887*	415	396	396	396

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*		35	35	35
Cetane Index		ASTM D4737*	<40.0	49	49	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	0	0	<1
Potassium	ppm	ASTM D5185(m)	<0.1	<1	<1	0
Water	%	ASTM D6304*	<0.05	0.003	0.003	0.002
ppm Water	ppm	ASTM D6304*	<500	31.9	33.9	24.8

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	628	880	827
Particles >6µm		ASTM D7647	>640	108	119	144
Particles >14µm		ASTM D7647	>80	6	10	16
Particles >21µm		ASTM D7647	>20	1	3	6
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/14/10	17/14/10	17/14/11

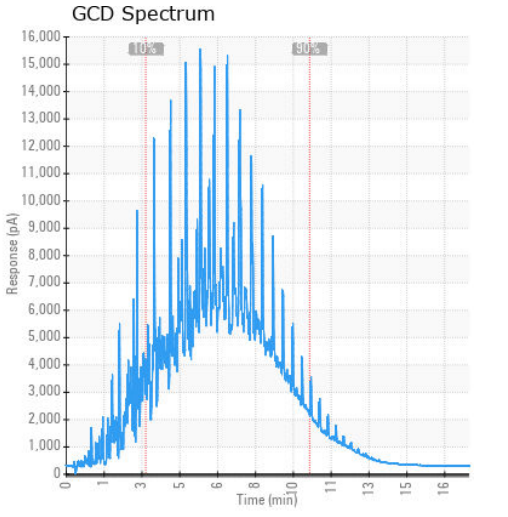
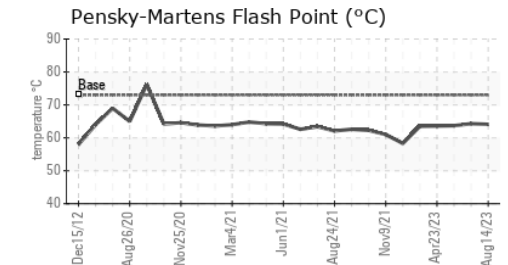
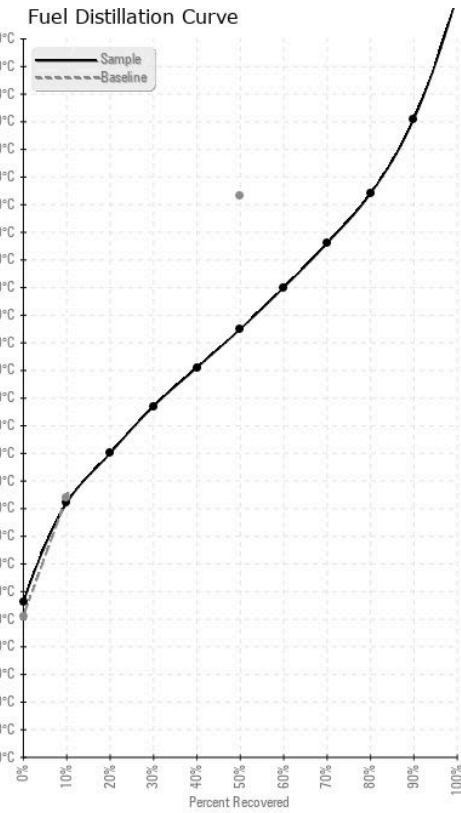
FUEL REPORT



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	<1	<1	<1
Calcium	ppm	ASTM D5185(m)	<0.1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	<0.1	0	0	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	0	0	<1
Zinc	ppm	ASTM D5185(m)	<0.1	<1	<1	<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 : 13 Sep 2023
Lab Number : 02582352
Diagnosed : 18 Sep 2023
Unique Number : 5643417
Diagnostician : Bill Quesnel
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.