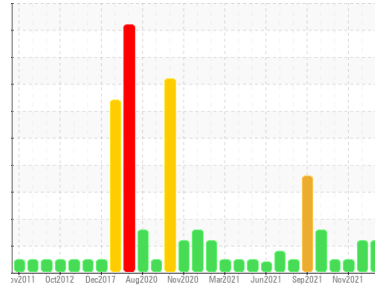


FUEL REPORT

Sample Rating Trend



ISO



Area
[450169735]
Machine Id
TB-71001B
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. 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.

Corrosion

{not applicable}

Contaminants

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

Fuel Condition

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC	PC	PC
Sample Date	Client Info			17 Jul 2023	14 Mar 2023	30 Nov 2021
Machine Age	hrs	Client Info		0	0	0
Sample Status				ABNORMAL	ABNORMAL	NORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.869	0.856	0.859	0.846
Fuel Color	text	Visual Screen*	Clear	Orang	Purpl	Yellow
Visc @ 40°C	cSt	ASTM D7279(m)	5.74	3.7	4.2	2.8
Pensky-Martens Flash Point	°C	ASTM D7215*	73.0	66.1	69	59

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	730	327	416	9

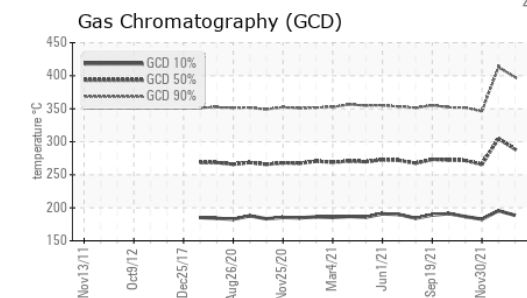
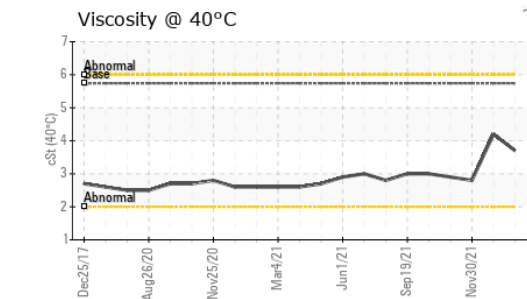
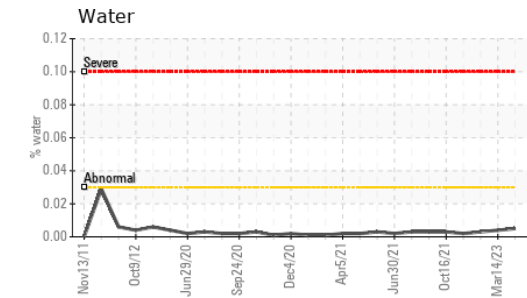
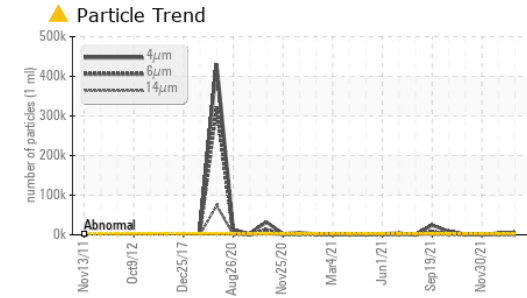
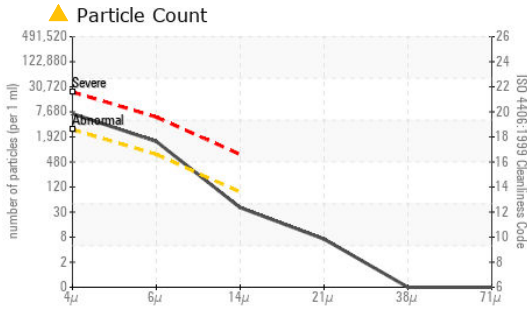
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	171	176	180	157
5% Distillation Point	°C	ASTM D2887*		200	207	188
10% Distill Point	°C	ASTM D2887*	214	214	221	200
15% Distillation Point	°C	ASTM D2887*		224	233	210
20% Distill Point	°C	ASTM D2887*		234	244	218
30% Distill Point	°C	ASTM D2887*		253	266	233
40% Distill Point	°C	ASTM D2887*		269	284	247
50% Distill Point	°C	ASTM D2887*	323	286	302	259
60% Distill Point	°C	ASTM D2887*		304	322	272
70% Distill Point	°C	ASTM D2887*		322	341	287
80% Distill Point	°C	ASTM D2887*		344	362	305
85% Distillation Point	°C	ASTM D2887*		359	375	314
90% Distill Point	°C	ASTM D2887*	398	374	387	325
95% Distillation Point	°C	ASTM D2887*		398	407	340
Final Boiling Point	°C	ASTM D2887*	415	415	420	346

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*		33	33	35
Cetane Index		ASTM D4737*	<40.0	47	48	46

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	0	0	0
Water	%	ASTM D6304*	<0.05	0.005	0.004	0.003
ppm Water	ppm	ASTM D6304*	<500	52.9	44.8	28.6

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ 6037	▲ 4583	381
Particles >6µm		ASTM D7647	>640	▲ 1309	▲ 1360	46
Particles >14µm		ASTM D7647	>80	34	65	3
Particles >21µm		ASTM D7647	>20	6	17	1
Particles >38µm		ASTM D7647	>4	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 20/18/12	▲ 19/18/13	16/13/9

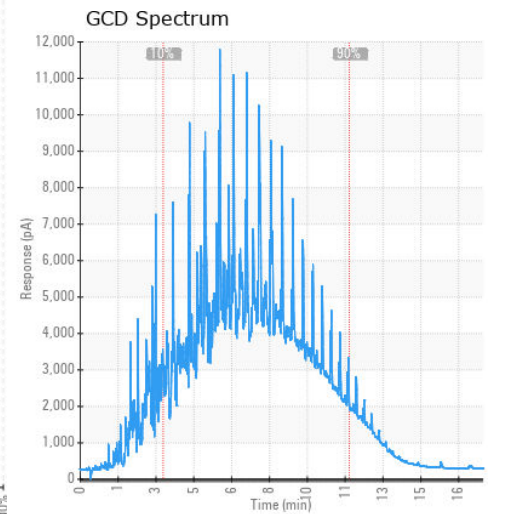
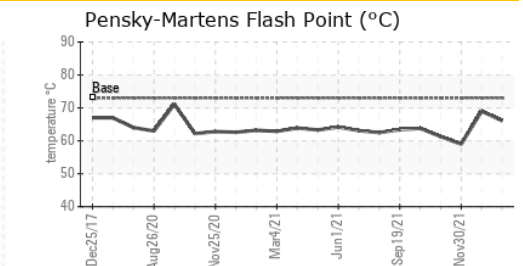
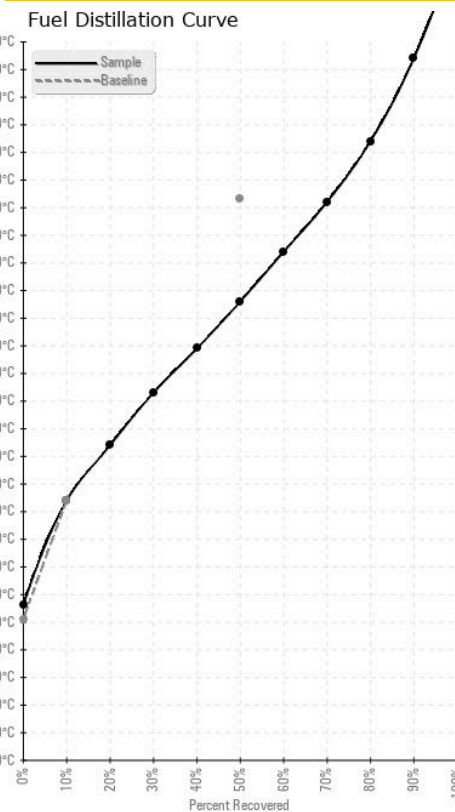
FUEL REPORT



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	<1	0
Magnesium	ppm	ASTM D5185(m)	<0.1	0	<1	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	0	0	0
Zinc	ppm	ASTM D5185(m)	<0.1	0	<1	0

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Received : 18 Jul 2023
Lab Number : 02570783
Diagnosed : 20 Jul 2023
Unique Number : 5607829
Diagnostician : 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.