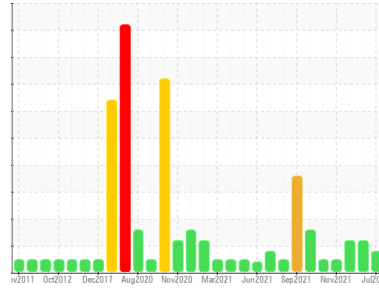


FUEL REPORT

Sample Rating Trend



ISO



Area
[450183052]
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. Resample at the next service interval to monitor.

Corrosion

{not applicable}

Contaminants

There is a light 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			31 Jul 2023	17 Jul 2023	14 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.869	0.853	0.856	0.859	
Fuel Color	text	Visual Screen*	Clear	Red	Orang	Purpl
Visc @ 40°C	cSt	ASTM D7279(m)	5.74	3.7	3.7	4.2
Pensky-Martens Flash Point	°C	ASTM D7215*	73.0	66.8	66.1	69

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	730	271	327	416

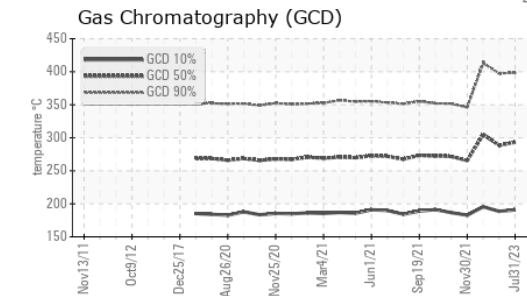
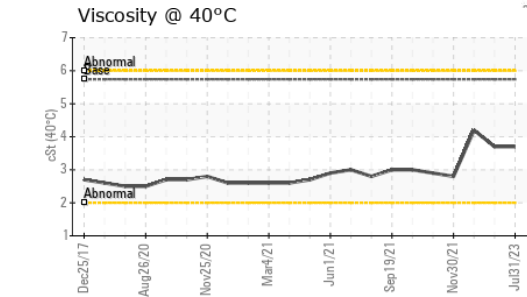
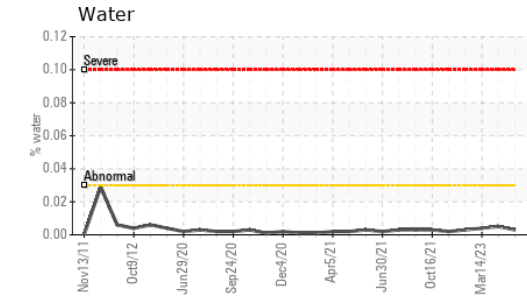
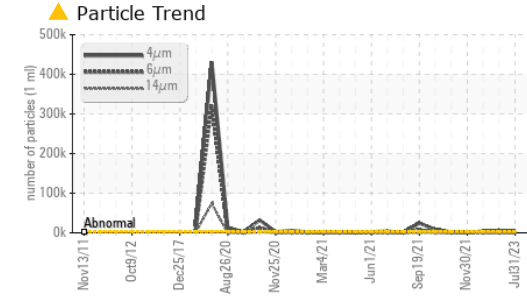
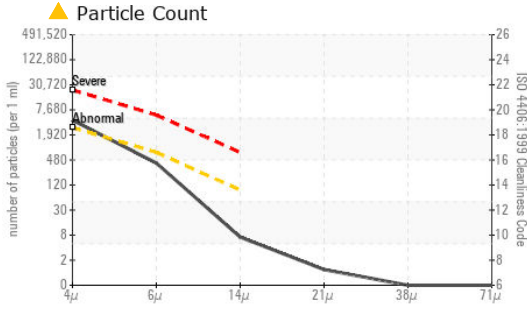
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	171	177	176	180
5% Distillation Point	°C	ASTM D2887*		202	200	207
10% Distill Point	°C	ASTM D2887*	214	216	214	221
15% Distillation Point	°C	ASTM D2887*		227	224	233
20% Distill Point	°C	ASTM D2887*		237	234	244
30% Distill Point	°C	ASTM D2887*		257	253	266
40% Distill Point	°C	ASTM D2887*		273	269	284
50% Distill Point	°C	ASTM D2887*	323	289	286	302
60% Distill Point	°C	ASTM D2887*		307	304	322
70% Distill Point	°C	ASTM D2887*		325	322	341
80% Distill Point	°C	ASTM D2887*		346	344	362
85% Distillation Point	°C	ASTM D2887*		360	359	375
90% Distill Point	°C	ASTM D2887*	398	374	374	387
95% Distillation Point	°C	ASTM D2887*		397	398	407
Final Boiling Point	°C	ASTM D2887*	415	412	415	420

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*		34	33	33
Cetane Index		ASTM D4737*	<40.0	49	47	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	0
Potassium	ppm	ASTM D5185(m)	<0.1	<1	0	0
Water	%	ASTM D6304*	<0.05	0.003	0.005	0.004
ppm Water	ppm	ASTM D6304*	<500	38.0	52.9	44.8

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ 3807	▲ 6037	▲ 4583
Particles >6µm		ASTM D7647	>640	356	▲ 1309	▲ 1360
Particles >14µm		ASTM D7647	>80	6	34	65
Particles >21µm		ASTM D7647	>20	1	6	17
Particles >38µm		ASTM D7647	>4	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ 19/16/10	▲ 20/18/12	▲ 19/18/13

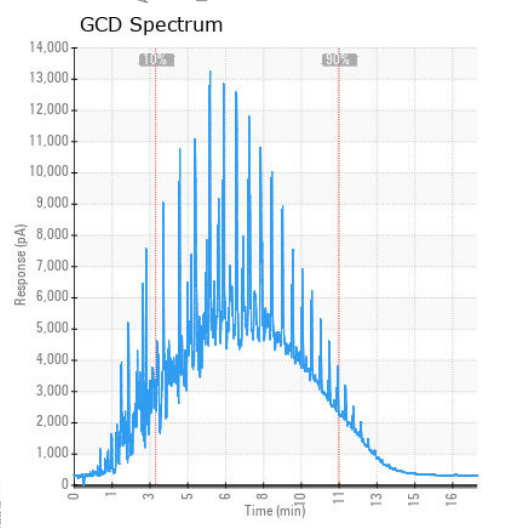
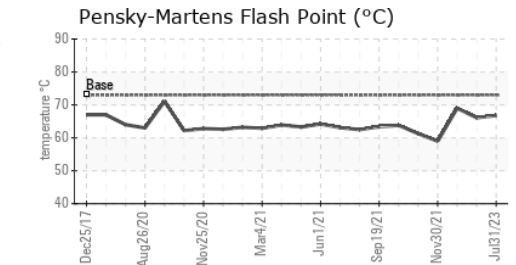
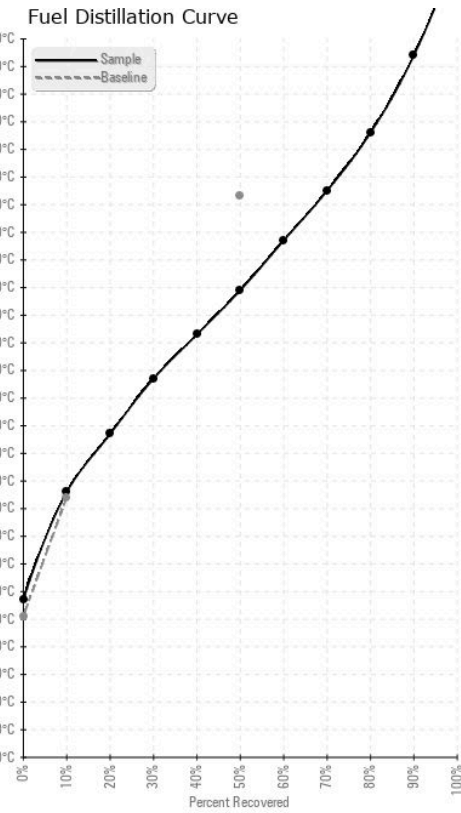
FUEL REPORT



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	<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	0
Zinc	ppm	ASTM D5185(m)	<0.1	0	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 Aug 2023
Lab Number : 02576305
Diagnosed : 18 Aug 2023
Unique Number : 5629365
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.