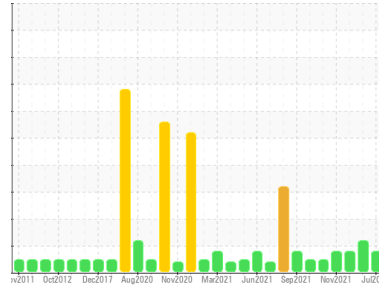


# FUEL REPORT

Sample Rating Trend



ISO



Area  
**[450183049]**  
Machine Id  
**TB-71001A**

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 condition of the fuel is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC</b>	PC	PC
Sample Date	Client Info			<b>31 Jul 2023</b>	17 Jul 2023	14 Mar 2023
Machine Age	hrs Client Info			<b>0</b>	0	0
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*	0.869	<b>0.854</b>	0.856	0.857	
Fuel Color	text Visual Screen*	Clear	<b>Red</b>	Orang	Purpl	
Visc @ 40°C	cSt ASTM D7279(m)	5.74	<b>3.6</b>	3.6	3.9	
Pensky-Martens Flash Point	°C ASTM D7215*	73.0	<b>67.6</b>	67.2	70.6	

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185(m)	730	<b>237</b>	273	363	

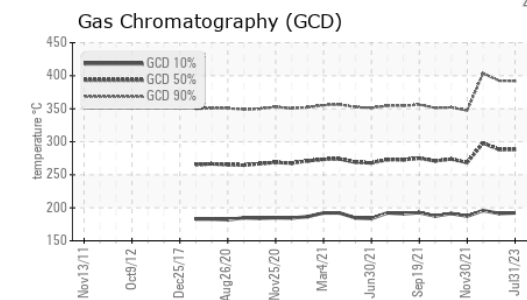
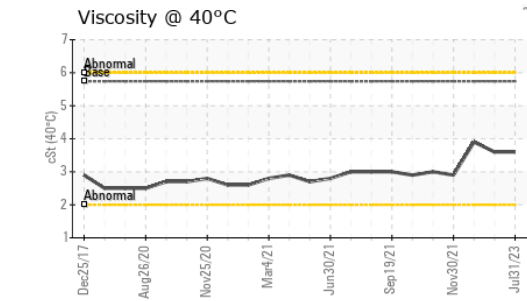
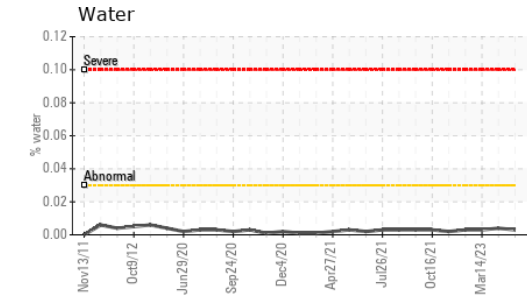
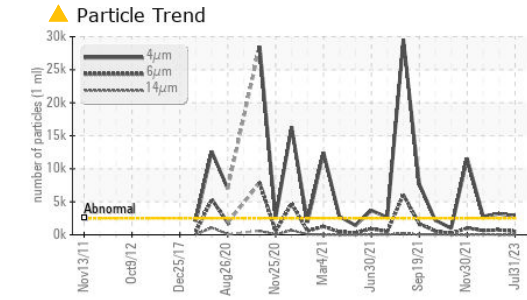
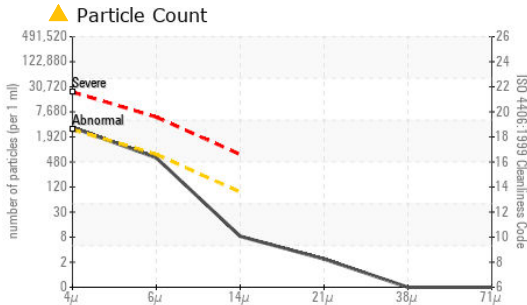
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	171	<b>178</b>	178	180
5% Distillation Point	°C	ASTM D2887*		<b>204</b>	203	207
10% Distill Point	°C	ASTM D2887*	214	<b>216</b>	216	220
15% Distillation Point	°C	ASTM D2887*		<b>226</b>	226	231
20% Distill Point	°C	ASTM D2887*		<b>236</b>	236	241
30% Distill Point	°C	ASTM D2887*		<b>254</b>	254	261
40% Distill Point	°C	ASTM D2887*		<b>270</b>	270	278
50% Distill Point	°C	ASTM D2887*	323	<b>285</b>	285	294
60% Distill Point	°C	ASTM D2887*		<b>303</b>	302	313
70% Distill Point	°C	ASTM D2887*		<b>320</b>	320	331
80% Distill Point	°C	ASTM D2887*		<b>340</b>	340	352
85% Distillation Point	°C	ASTM D2887*		<b>354</b>	355	365
90% Distill Point	°C	ASTM D2887*	398	<b>369</b>	369	379
95% Distillation Point	°C	ASTM D2887*		<b>393</b>	394	402
Final Boiling Point	°C	ASTM D2887*	415	<b>411</b>	413	417

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity	ASTM D1298*			<b>34</b>	33	33
Cetane Index	ASTM D4737*	<40.0		<b>48</b>	47	48

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<b>0</b>	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185(m)	<0.1	<b>&lt;1</b>	0	0
Water	%	ASTM D6304*	<0.05	<b>0.003</b>	0.004	0.003
ppm Water	ppm	ASTM D6304*	<500	<b>36.5</b>	47.4	36.8

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>▲ 2847</b>	▲ 3193	▲ 2794	
Particles >6µm	ASTM D7647	>640	<b>531</b>	▲ 724	640	
Particles >14µm	ASTM D7647	>80	<b>7</b>	10	54	
Particles >21µm	ASTM D7647	>20	<b>2</b>	2	21	
Particles >38µm	ASTM D7647	>4	<b>0</b>	0	2	
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0	
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>▲ 19/16/10</b>	▲ 19/17/10	▲ 19/16/13	

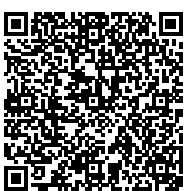
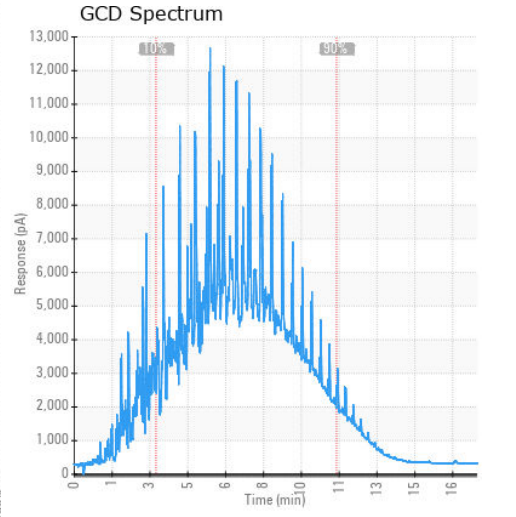
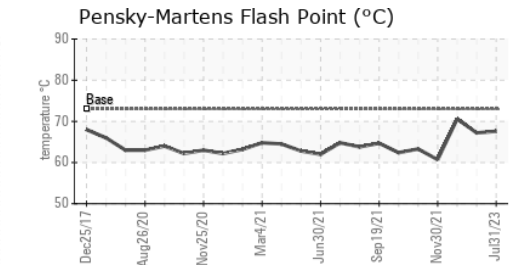
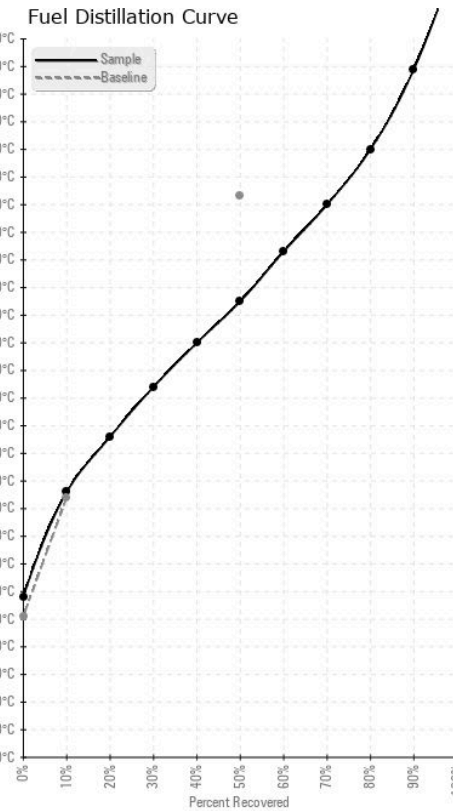
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HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	0	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	0	0	0
Lead	ppm	ASTM D5185(m)	<0.1	0	0	0
Vanadium	ppm	ASTM D5185(m)	<0.1	0	0	0
Iron	ppm	ASTM D5185(m)	<0.1	<1	<1	<1
Calcium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



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Received** : 16 Aug 2023  
**Lab Number** : 02576306  
**Diagnosed** : 18 Aug 2023  
**Unique Number** : 5629366  
**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.