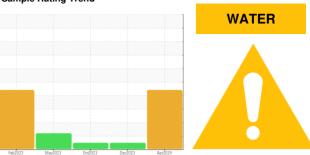


# **FUEL REPORT**

Sample Rating Trend



Machine Id

# **MIDSHIPCRANE**

**Diesel Fuel** 

No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

### **DIAGNOSIS**

#### Recommendation

We advise that you check for the source of water entry. We advise that you filter this fluid before use. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

#### Contaminants

There is a moderate amount of particulates (2 to 100 microns in size) present in the fuel. Excessive free water present. There is no bacteria or fungus (yeast and/or mold) present in the sample. Small amount of bacteria present. No reportable mold present. No reportable yeast present.

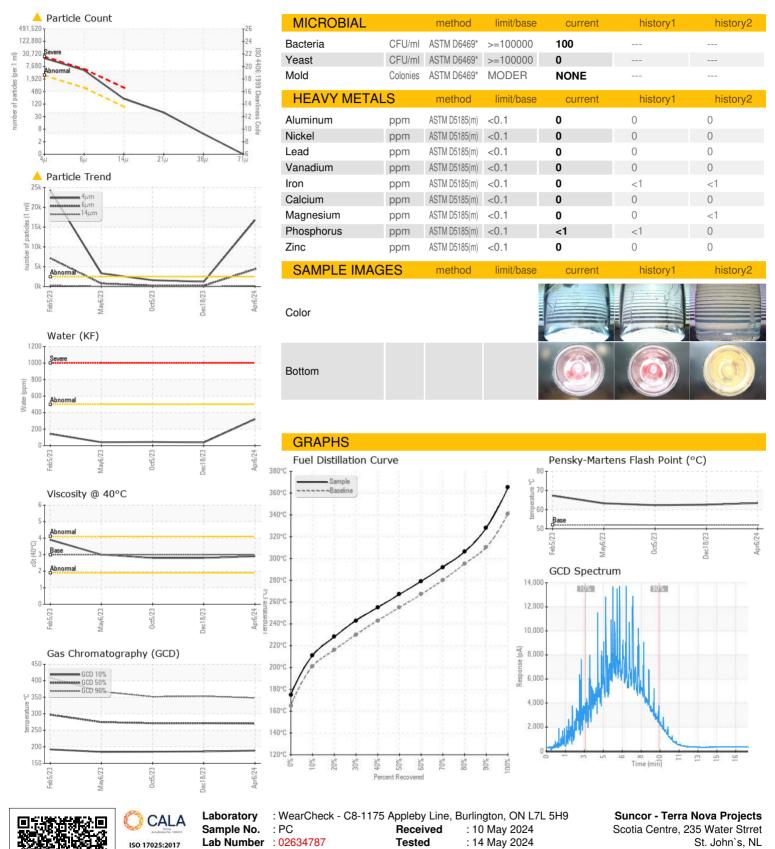
#### **Fuel Condition**

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

iAL)		Feb 2023	May2023	Oct2023 Dec2023	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC	PC	PC
Sample Date		Client Info		06 Apr 2024	18 Dec 2023	05 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				ABNORMAL	NORMAL	NORMAL
PHYSICAL PROP	<b>ERTIES</b>	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.851	0.844	0.843
Fuel Color	text	Visual Screen*	Yllow	Yllow	Yllow	Yllow
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9	2.8	2.8
Pensky-Martens Flash Point	°C	ASTM D7215*	52	63.4	62.6	62.3
SULFUR CONT	ΓENT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	12	20	20
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	175	174	173
5% Distillation Point	°C	ASTM D2887*		200	198	197
10% Distill Point	°C	ASTM D2887*	201	211	210	209
15% Distillation Point	°C	ASTM D2887*		220	218	218
20% Distill Point	°C	ASTM D2887*	216	228	227	227
30% Distill Point	°C	ASTM D2887*	230	243	242	242
40% Distill Point	°C	ASTM D2887*	243	255	255	255
50% Distill Point	°C	ASTM D2887*	255	267	268	268
60% Distill Point	°C	ASTM D2887*	267	279	281	281
70% Distill Point	°C	ASTM D2887*	280	292	295	294
80% Distill Point	°C	ASTM D2887*	295	306	310	309
85% Distillation Point	°C	ASTM D2887*		317	322	320
90% Distill Point	°C	ASTM D2887*	310	328	333	331
95% Distillation Point	°C	ASTM D2887*		346	352	350
Final Boiling Point	°C	ASTM D2887*	341	365	381	372
IGNITION QUA	LITY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	34		36
Cetane Index		ASTM D4737*	<40.0	46		49
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	<1	0	0
Sodium	ppm	ASTM D5185(m)	< 0.1	<1	<1	0
Potassium	ppm	ASTM D5185(m)	<0.1	1	<1	<1
Water	%	ASTM D6304*	< 0.05	0.032	0.003	0.004
ppm Water	ppm	ASTM D6304*	<500	321	39	44.3
FLUID CLEANL	INESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>16791</b>	1215	1604
Particles >6µm		ASTM D7647	>640	<b>4424</b>	221	237
Particles >14µm		ASTM D7647	>80	<b>190</b>	7	5
Particles >21µm		ASTM D7647	>20	<b>42</b>	1	1
Particles >38µm		ASTM D7647	>4	4	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	<u>^</u> 21/19/15	17/15/10	18/15/10



## **FUEL REPORT**



Unique Number : 5775940

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Accredited

Laboratory

: 14 May 2024 - Kevin Marson

Diagnosed

Test Package : FUEL ( Additional Tests: Bacteria, CC Flash, PrtCount )

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.

F: (709)724-2784

CA A1C 1B6

Contact: Deanne Badcock

dbadcock@suncor.com T: (709)778-3843