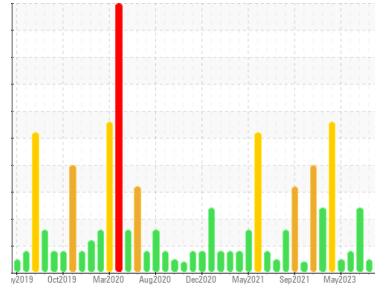


# FUEL REPORT

Sample Rating Trend



**NORMAL**



Area  
**Cranes**  
Machine Id  
**Crane - Fwd Fuel Sample (S/N Sample Tag: MA-04003)**  
Component  
**Diesel Fuel**  
Fluid  
**No.2 DIESEL FUEL (LOW-SULPHUR) (--- 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.

### Fuel Condition

All laboratory tests indicate that this sample meets specifications for No.2 diesel fuel, low sulfur (US EPA/CGSB-3.517-3 type B).

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC</b>	PC	PC
Sample Date	Client Info	<b>18 Dec 2023</b>	06 Sep 2023	15 Aug 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

## PHYSICAL PROPERTIES

method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298* 0.839	<b>0.847</b>	0.844	0.844
Fuel Color	text Visual Screen* Yllow	<b>Yllow</b>	Yllow	DkYllw
Visc @ 40°C	cSt ASTM D7279(m) 3.0	<b>2.7</b>	2.8	2.8
Pensky-Martens Flash Point	°C ASTM D7215* 52	<b>62.5</b>	62.8	62

## SULFUR CONTENT

method	limit/base	current	history1	history2
Sulfur	ppm ASTM D5185(m) 250	<b>18</b>	51	48

## DISTILLATION

method	limit/base	current	history1	history2
Initial Boiling Point	°C ASTM D2887* 165	<b>174</b>	174	172
5% Distillation Point	°C ASTM D2887*	<b>198</b>	200	196
10% Distill Point	°C ASTM D2887* 201	<b>210</b>	212	209
15% Distillation Point	°C ASTM D2887*	<b>218</b>	221	218
20% Distill Point	°C ASTM D2887* 216	<b>227</b>	230	227
30% Distill Point	°C ASTM D2887* 230	<b>241</b>	245	243
40% Distill Point	°C ASTM D2887* 243	<b>253</b>	258	256
50% Distill Point	°C ASTM D2887* 255	<b>265</b>	271	269
60% Distill Point	°C ASTM D2887* 267	<b>278</b>	284	283
70% Distill Point	°C ASTM D2887* 280	<b>291</b>	298	297
80% Distill Point	°C ASTM D2887* 295	<b>307</b>	313	313
85% Distillation Point	°C ASTM D2887*	<b>319</b>	323	325
90% Distill Point	°C ASTM D2887* 310	<b>330</b>	334	336
95% Distillation Point	°C ASTM D2887*	<b>351</b>	351	355
Final Boiling Point	°C ASTM D2887* 341	<b>384</b>	369	375

## IGNITION QUALITY

method	limit/base	current	history1	history2
API Gravity	ASTM D1298* 37.7	<b>35</b>	36	36
Cetane Index	ASTM D4737* <40.0	<b>47</b>	49	49

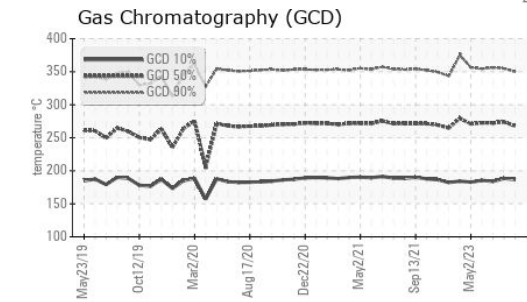
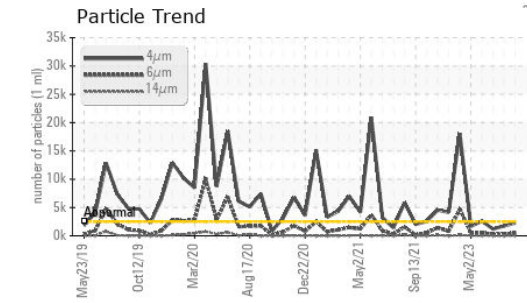
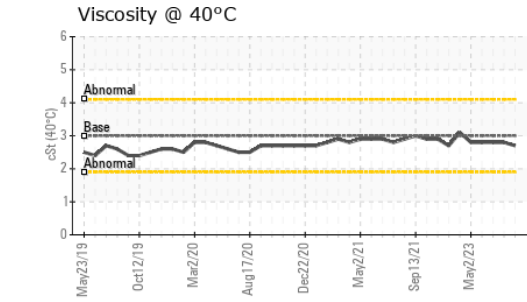
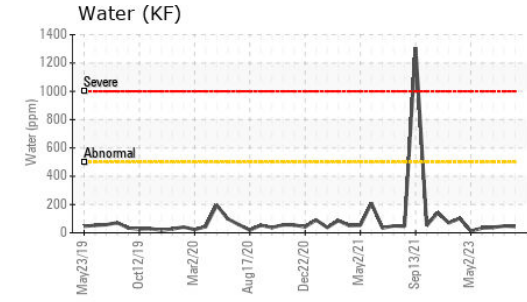
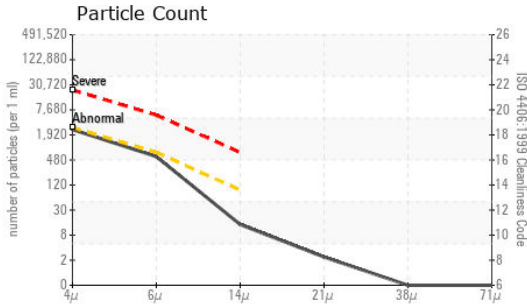
## CONTAMINANTS

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>	0	0
Potassium	ppm ASTM D5185(m) <0.1	<b>&lt;1</b>	<1	<1
Water	% ASTM D6304* <0.05	<b>0.004</b>	0.004	0.003
ppm Water	ppm ASTM D6304* <500	<b>45</b>	48.5	37.5

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	<b>2260</b>	1744	1202
Particles >6µm	ASTM D7647 >640	<b>509</b>	301	234
Particles >14µm	ASTM D7647 >80	<b>12</b>	10	22
Particles >21µm	ASTM D7647 >20	<b>2</b>	2	10
Particles >38µm	ASTM D7647 >4	<b>0</b>	0	2
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c) >18/16/13	<b>18/16/11</b>	18/15/10	17/15/12

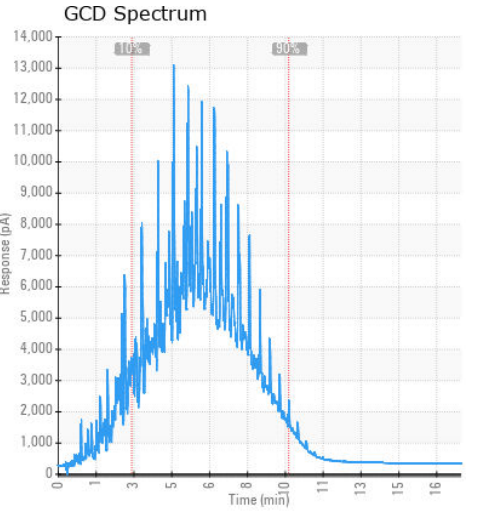
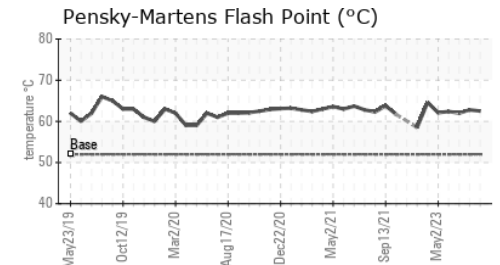
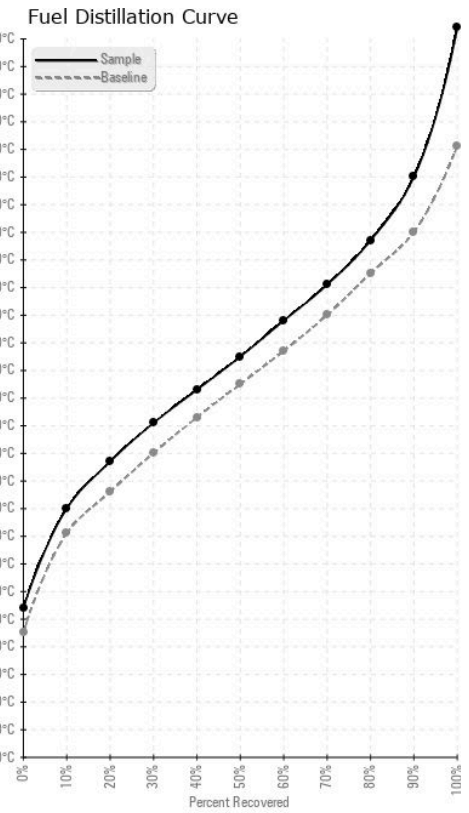
# FUEL REPORT



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

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : 02604264  
**Unique Number** : 5697349  
**Test Package** : FUEL ( Additional Tests: CC Flash, GC-PercFuel, PrtCount )  
**Received** : 19 Dec 2023  
**Diagnosed** : 22 Dec 2023  
**Diagnostician** : Kevin Marson

**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.