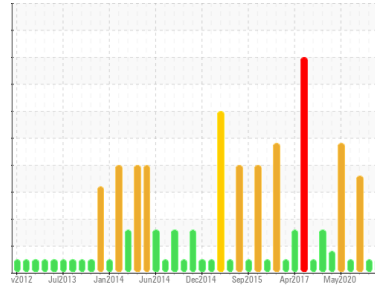


FUEL REPORT

Sample Rating Trend



NORMAL



Area
CRANES
Machine Id
MA-04002 - FWD CRANE (S/N BL-50457)
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW 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.

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 ultra-low-sulfur diesel fuel (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC	WC	PC
Sample Date	Client Info	31 Mar 2024	16 Jan 2024	01 Dec 2021
Machine Age	hrs	0	0	0
Sample Status		NORMAL	NORMAL	ABNORMAL

PHYSICAL PROPERTIES

method	limit/base	current	history1	history2		
Specific Gravity	ASTM D1298*	0.839	0.850	0.850	0.846	
Fuel Color	text	Visual Screen*	Yellow	Yellow	Yellow	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.9	2.8	2.9
Pensky-Martens Flash Point	°C	ASTM D7215*	52	64.5	64.1	58.8

SULFUR CONTENT

method	limit/base	current	history1	history2		
Sulfur	ppm	ASTM D5185(m)	10	13	13	12

DISTILLATION

method	limit/base	current	history1	history2		
Initial Boiling Point	°C	ASTM D2887*	165	176	176	157
5% Distillation Point	°C	ASTM D2887*		202	201	188
10% Distill Point	°C	ASTM D2887*	201	213	212	200
15% Distillation Point	°C	ASTM D2887*		222	220	209
20% Distill Point	°C	ASTM D2887*	216	230	228	218
30% Distill Point	°C	ASTM D2887*	230	244	242	232
40% Distill Point	°C	ASTM D2887*	243	256	254	246
50% Distill Point	°C	ASTM D2887*	255	268	265	259
60% Distill Point	°C	ASTM D2887*	267	280	278	272
70% Distill Point	°C	ASTM D2887*	280	293	290	286
80% Distill Point	°C	ASTM D2887*	295	307	304	304
85% Distillation Point	°C	ASTM D2887*		318	315	314
90% Distill Point	°C	ASTM D2887*	310	329	326	327
95% Distillation Point	°C	ASTM D2887*		348	346	341
Final Boiling Point	°C	ASTM D2887*	341	373	374	357

IGNITION QUALITY

method	limit/base	current	history1	history2	
API Gravity	ASTM D1298*	37.7	34	34	35
Cetane Index	ASTM D4737*	<40.0	46	46	45

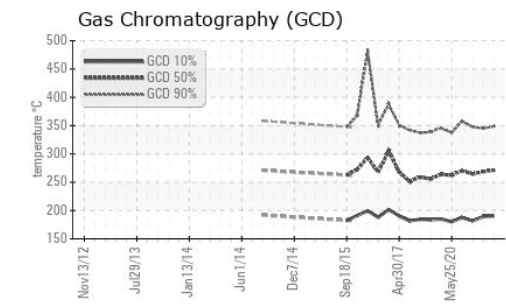
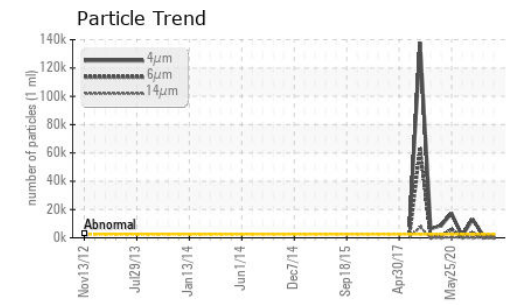
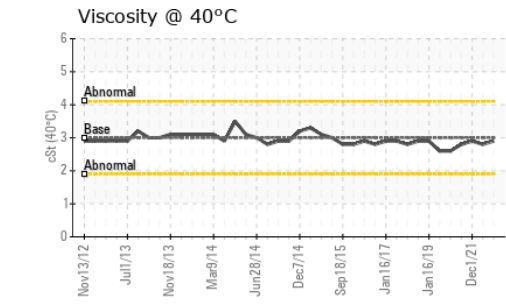
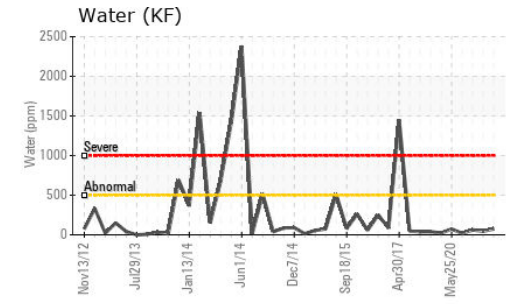
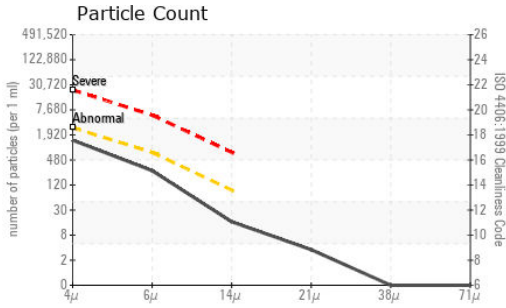
CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<1.0	0	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	<1	<1	<1
Potassium	ppm	ASTM D5185(m)	<0.1	0	0	0
Water	%	ASTM D6304*	<0.05	0.007	0.004	0.006
ppm Water	ppm	ASTM D6304*	<500	74	45	61.9

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>2500	1259	1754	▲ 13075
Particles >6µm	ASTM D7647	>640	234	337	▲ 3255
Particles >14µm	ASTM D7647	>80	14	15	● 90
Particles >21µm	ASTM D7647	>20	3	2	9
Particles >38µm	ASTM D7647	>4	0	0	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	17/15/11	18/16/11	▲ 21/19/14

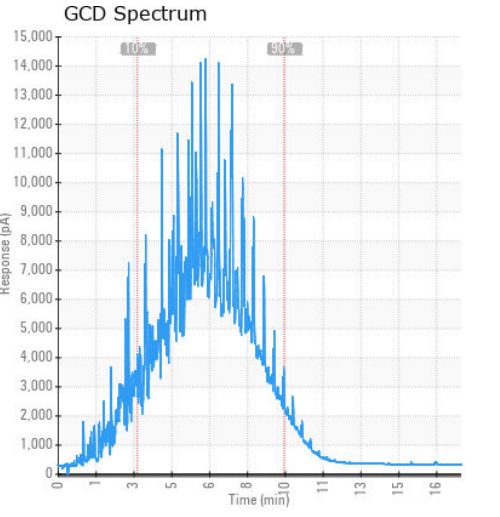
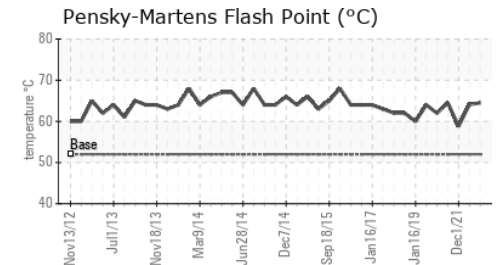
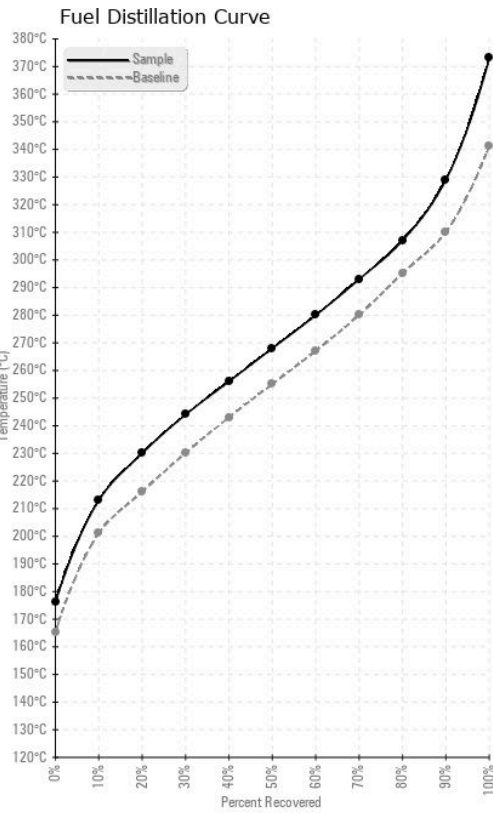
FUEL REPORT



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	0	0	<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	<1	<1	<1
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
Lab Number : 02625826
Unique Number : 5750945
Test Package : FUEL (Additional Tests: CC Flash, PrtCount)
Received : 01 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 03 Apr 2024 - 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.