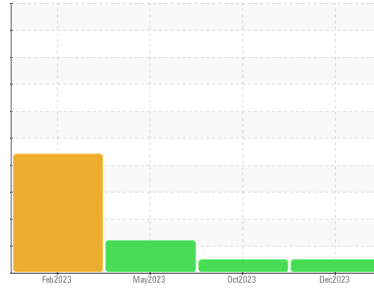


FUEL REPORT

Sample Rating Trend



NORMAL



Machine Id
MIDSHIPCRANE

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			PC	PC	PC
Sample Date	Client Info			18 Dec 2023	05 Oct 2023	06 May 2023
Machine Age	hrs	Client Info		0	0	0
Sample Status				NORMAL	NORMAL	ATTENTION

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.844	0.843	0.844
Fuel Color	text	Visual Screen*	Yllow	Yllow	Yllow	Red
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.8	2.8	3
Pensky-Martens Flash Point	°C	ASTM D7215*	52	62.6	62.3	63.3

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	20	20	124

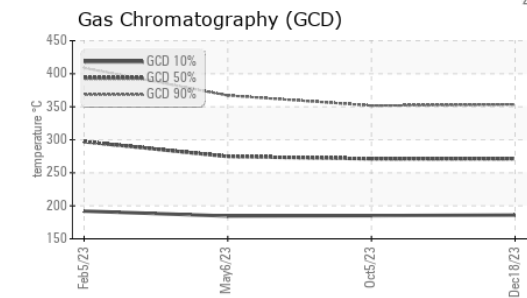
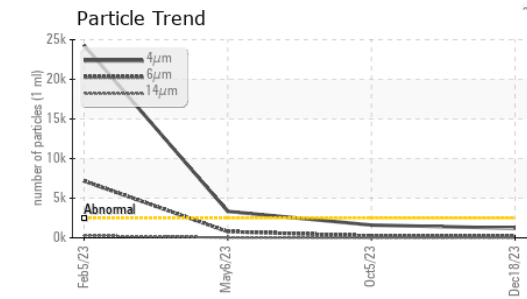
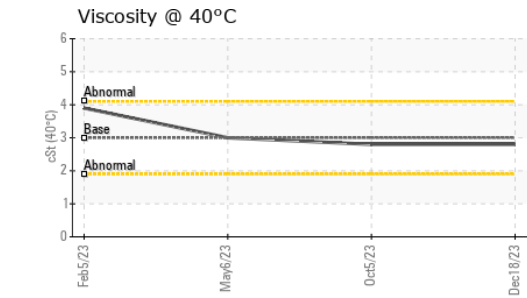
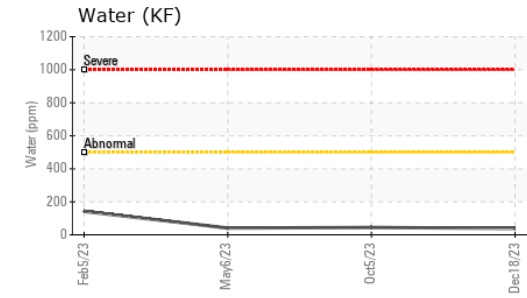
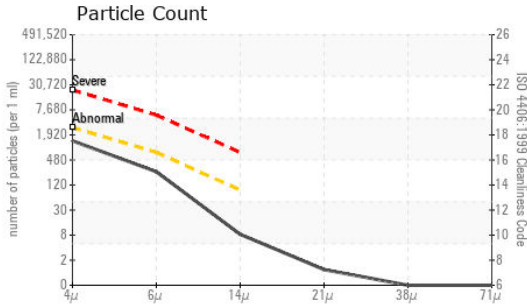
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	174	173	174
5% Distillation Point	°C	ASTM D2887*		198	197	197
10% Distill Point	°C	ASTM D2887*	201	210	209	209
15% Distillation Point	°C	ASTM D2887*		218	218	218
20% Distill Point	°C	ASTM D2887*	216	227	227	227
30% Distill Point	°C	ASTM D2887*	230	242	242	243
40% Distill Point	°C	ASTM D2887*	243	255	255	258
50% Distill Point	°C	ASTM D2887*	255	268	268	272
60% Distill Point	°C	ASTM D2887*	267	281	281	287
70% Distill Point	°C	ASTM D2887*	280	295	294	303
80% Distill Point	°C	ASTM D2887*	295	310	309	320
85% Distillation Point	°C	ASTM D2887*		322	320	333
90% Distill Point	°C	ASTM D2887*	310	333	331	346
95% Distillation Point	°C	ASTM D2887*		352	350	367
Final Boiling Point	°C	ASTM D2887*	341	381	372	387

IGNITION QUALITY		method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	---	36	36
Cetane Index		ASTM D4737*	<40.0	---	49	49

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	0	0
Potassium	ppm	ASTM D5185(m)	<0.1	<1	<1	0
Water	%	ASTM D6304*	<0.05	0.003	0.004	0.004
ppm Water	ppm	ASTM D6304*	<500	39	44.3	41.0

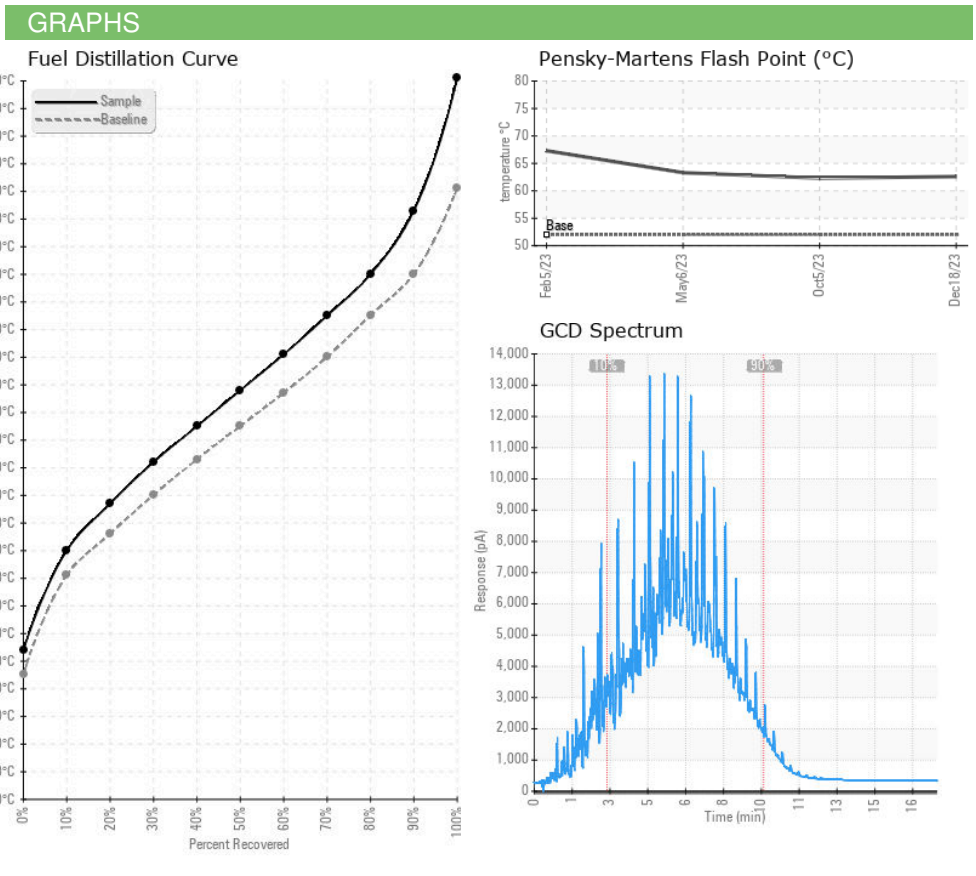
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1215	1604	▲ 3334
Particles >6µm		ASTM D7647	>640	221	237	▲ 781
Particles >14µm		ASTM D7647	>80	7	5	25
Particles >21µm		ASTM D7647	>20	1	1	4
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	17/15/10	18/15/10	▲ 19/17/12

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

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02604263
Unique Number : 5697348
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

Suncor - Terra Nova Projects
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 St. John's, NL
 CA A1C 1B6
 Contact: Deanne Badcock
 dbadcock@suncor.com
 T: (709)778-3843
 F: (709)724-2784

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.