

FUEL REPORT

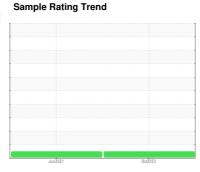
FUEL REPURI

[132366] Machine Id WINDSOR HEADWORKS

Component

Diesel Fuel

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.

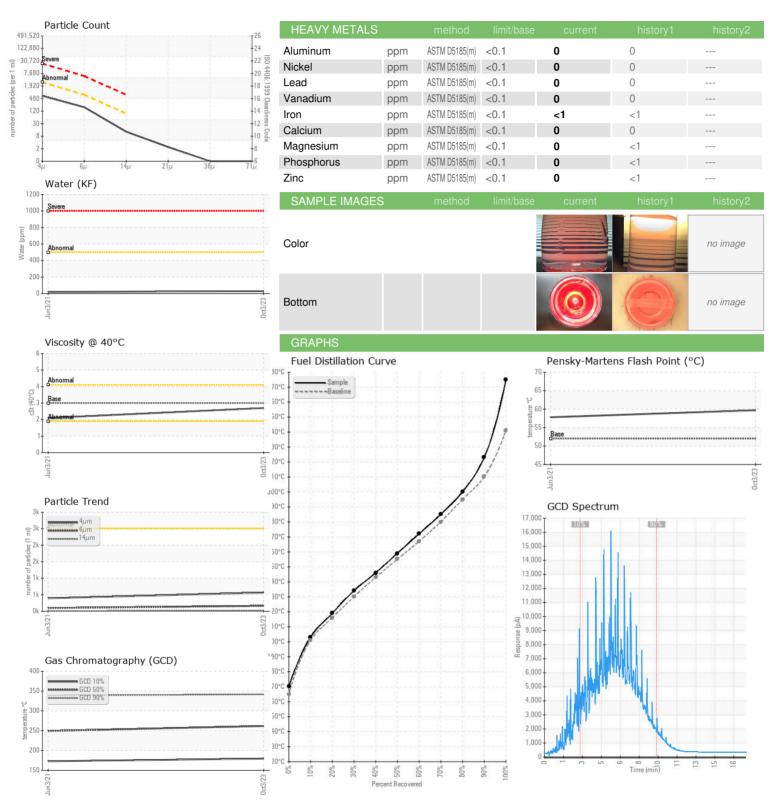
Fuel Condition

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

GAL)			Jun 2021	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		CU0020251	CU0017398	
Sample Date		Client Info		03 Oct 2023	03 Jun 2021	
Machine Age	hrs	Client Info		0	0	
Sample Status	1110	Olioni iino		NORMAL	NORMAL	
				HOTHIAL	140111111111	
PHYSICAL PROP	PERTIES	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	0.842	0.839	
Fuel Color	text	Visual Screen*	Yllow	Pink	Pink	
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.7	2.1	
Pensky-Martens Flash Point	°C	ASTM D7215*	52	59.7	57.8	
SULFUR CONTE	NT	method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	250	18	4	
DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	170	159	
5% Distillation Point	°C	ASTM D2887*		192	183	
10% Distill Point	°C	ASTM D2887*	201	203	192	
15% Distillation Point	°C	ASTM D2887*		211	199	
20% Distill Point	°C	ASTM D2887*	216	219	207	
30% Distill Point	°C	ASTM D2887*	230	234	222	
40% Distill Point	°C	ASTM D2887*	243	246	235	
50% Distill Point	°C	ASTM D2887*	255	259	249	
60% Distill Point	°C	ASTM D2887*	267	272	263	
70% Distill Point	°C	ASTM D2887*	280	285	278	
80% Distill Point	°C	ASTM D2887*	295	300	295	
85% Distillation Point	°C	ASTM D2887*		312	306	
90% Distill Point	°C	ASTM D2887*	310	323	321	
95% Distillation Point	°C	ASTM D2887*		343	340	
Final Boiling Point	°C	ASTM D2887*	341	375	366	
IGNITION QUALIT	ΓY	method	limit/base	current	history1	history2
API Gravity		ASTM D1298*	37.7	36	37	
Cetane Index		ASTM D4737*	<40.0	47	46	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185(m)	<1.0	0	<1	
Sodium	ppm	ASTM D5185(m)	<0.1	0	<1	
Potassium	ppm	ASTM D5185(m)	<0.1	<1	0	
Water	ppm %	ASTM D3163(III) ASTM D6304*	<0.05	0.003	0.002	
ppm Water	ppm	ASTM D6304*	<500	28.7	20.0	
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm	IESS	ASTM D7647	>2500	565	393	TIISTOT y Z
Particles >4μm		ASTM D7647	>640	163	97	
Particles >14μm		ASTM D7647	>80	111	8	
Particles >21µm		ASTM D7647	>20	2	2	
Particles >38µm		ASTM D7647	>4	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/16/13	16/15/11	16/14/10	
Jii Jidaiiii 1033		.55 4700 (0)	- 10/10/10	.5/ 15/ 11	13/17/10	



FUEL REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: CU0020251

: 02586952 : 5656018

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received Diagnosed

: 10 Oct 2023 Diagnostician : Kevin Marson

: 04 Oct 2023

Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount) 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.

CUMMINS DIESEL 50 SIMMONDS DRIVE DARTMOUTH, NS

CA B3B 1R3 Contact: Tanya Brown tanya.brown@cummins.com

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