FUEL REPORT

Sample Rating Trend

ISO

Area
[328141]
Machine Id
G1
Component
Diesel Fuel
Fluid
No.2 DIESEL FUEL (ULTRALOW SULPHUR) (--- GAL)

DIAGNOSIS

Recommendation

Les tests de laboratoire indiquent que ce carburant peut être utilisé et qu`il répond à toutes les exigences. Le reniflard d`air doit être réparé. S`il n`est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Nous vous recommandons de filtrer ce fluide avant de l`utiliser. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation.

Corrosion

{sans objet}

Contaminants

Il y a une quantité élevée de matières particulaires (2 à 100 µm de taille) présente dans le carburant. La teneur en eau est négligeable.

Fuel Condition

Tous les essais en laboratoire indiquent que cet échantillon satisfait aux spécifications pour le carburant diesel à ultra-faible teneur de soufre No.2 (US EPA/CGSB-3.517-3 type B).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**CU0021605**	CU0020357	CU0019166
Sample Date		Client Info		**16 Oct 2023**	10 May 2023	19 Oct 2022
Machine Age	hrs	Client Info		**357**	0	0
Sample Status				**SEVERE**	NORMAL	ABNORMAL

PHYSICAL PROPERTIES		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	0.839	**0.825**	0.826	0.826
Fuel Color	text	Visual Screen*	Yllow	**Red**	Red	Red
Visc @ 40°C	cSt	ASTM D7279(m)	3.0	**1.9**	2.1	1.9
Pensky-Martens Flash Point	°C	ASTM D7215*	52	**55**	54	55.5

SULFUR CONTENT		method	limit/base	current	history1	history2
Sulfur	ppm	ASTM D5185(m)	10	**12**	6	0

DISTILLATION		method	limit/base	current	history1	history2
Initial Boiling Point	°C	ASTM D2887*	165	**163**	164	158
5% Distillation Point	°C	ASTM D2887*		**181**	185	181
10% Distill Point	°C	ASTM D2887*	201	**187**	193	188
15% Distillation Point	°C	ASTM D2887*		**193**	200	194
20% Distill Point	°C	ASTM D2887*	216	**199**	206	201
30% Distill Point	°C	ASTM D2887*	230	**209**	217	214
40% Distill Point	°C	ASTM D2887*	243	**221**	228	226
50% Distill Point	°C	ASTM D2887*	255	**232**	240	239
60% Distill Point	°C	ASTM D2887*	267	**244**	253	254
70% Distill Point	°C	ASTM D2887*	280	**256**	267	266
80% Distill Point	°C	ASTM D2887*	295	**271**	283	278
85% Distillation Point	°C	ASTM D2887*		**283**	294	289
90% Distill Point	°C	ASTM D2887*	310	**294**	305	302
95% Distillation Point	°C	ASTM D2887*		**315**	324	326
Final Boiling Point	°C	ASTM D2887*	341	**337**	344	342

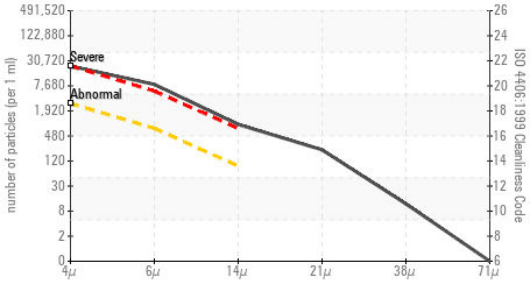
IGNITION QUALITY	method	limit/base	current	history1	history2
API Gravity	ASTM D1298*	37.7	**40**	39	39
Cetane Index	ASTM D4737*	<40.0	**47**	49	48

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<1.0	**<1**	0	0
Sodium	ppm	ASTM D5185(m)	<0.1	**0**	0	<1
Potassium	ppm	ASTM D5185(m)	<0.1	**<1**	0	0
Water	%	ASTM D6304*	<0.05	**0.003**	0.003	0.002
ppm Water	ppm	ASTM D6304*	<500	**25.6**	25.1	25.0

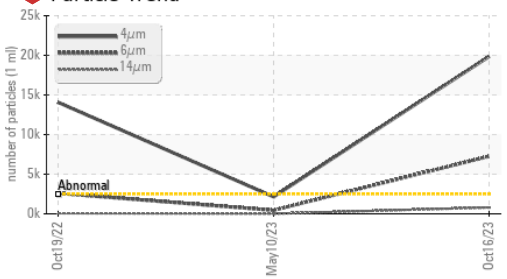
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **19857**	2145	▲ 14072
Particles >6µm		ASTM D7647	>640	⬢ **7257**	442	▲ 2593
Particles >14µm		ASTM D7647	>80	⬢ **796**	7	68
Particles >21µm		ASTM D7647	>20	⬢ **197**	0	15
Particles >38µm		ASTM D7647	>4	▲ **10**	0	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	⬢ **21/20/17**	18/16/10	▲ 21/19/13

FUEL REPORT

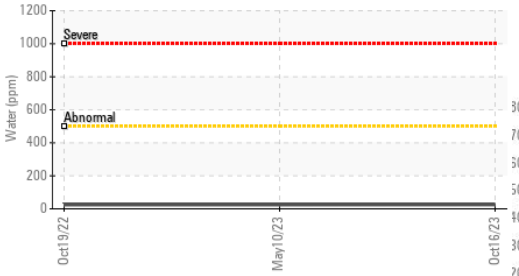
Particle Count



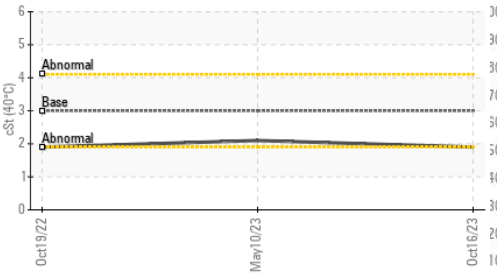
Particle Trend



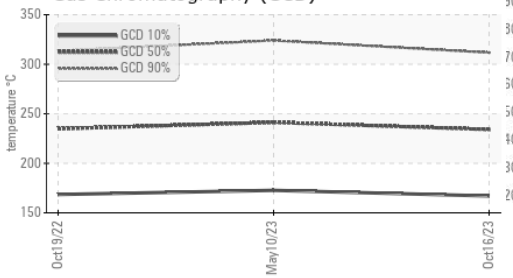
Water (KF)



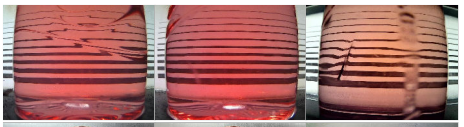
Viscosity @ 40°C



Gas Chromatography (GCD)

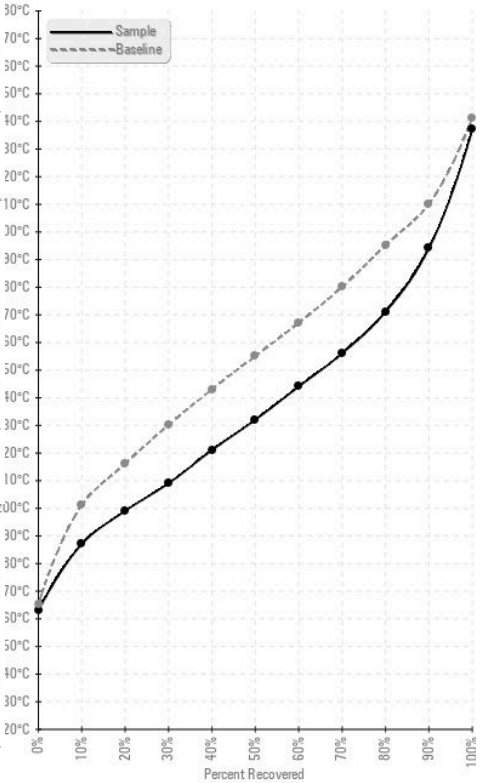


HEAVY METALS		method	limit/base	current	history1	history2
Aluminum	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Nickel	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Lead	ppm	ASTM D5185(m)	<0.1	**<1**	0	▲ 2
Vanadium	ppm	ASTM D5185(m)	<0.1	**0**	0	0
Iron	ppm	ASTM D5185(m)	<0.1	**<1**	<1	<1
Calcium	ppm	ASTM D5185(m)	<0.1	**<1**	<1	<1
Magnesium	ppm	ASTM D5185(m)	<0.1	**<1**	0	<1
Phosphorus	ppm	ASTM D5185(m)	<0.1	**<1**	0	<1
Zinc	ppm	ASTM D5185(m)	<0.1	**<1**	<1	<1

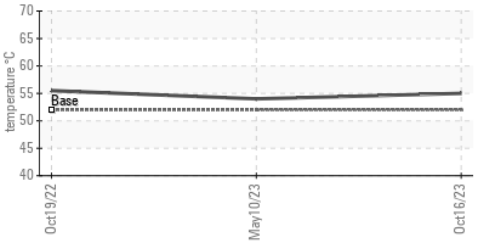
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

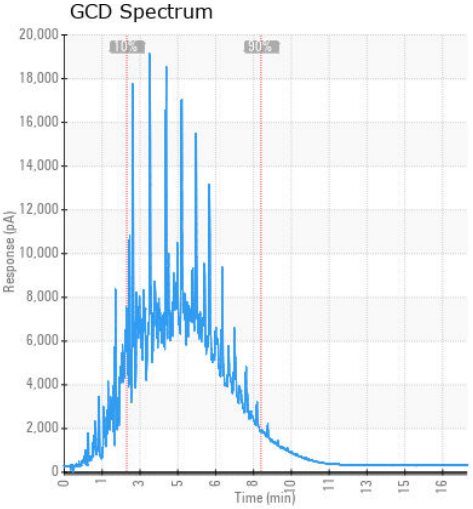
Fuel Distillation Curve



Pensky-Martens Flash Point (°C)



GCD Spectrum



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0021605
Lab Number : 02592770
Unique Number : 5669849
Test Package : FUEL (Additional Tests: CC Flash, GC-PercFuel, PrtCount)

Received : 30 Oct 2023
Diagnosed : 01 Nov 2023
Diagnostician : Kevin Marson

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 EASTERN CANADA LP
315 AV LIBERTE
CANDIAC, QC
CA J5R 6Z7
Contact: Thomas Owens
is275@cummins.com
T: (450)638-6863
F: (450)638-1202