

# **FUEL REPORT**

[6100298924] U244880M

**Diesel Fuel** 

No.2 DIESEL FUEL (LOW-SULPHUR) (--- GAL)

# Sample Rating Trend



# 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.

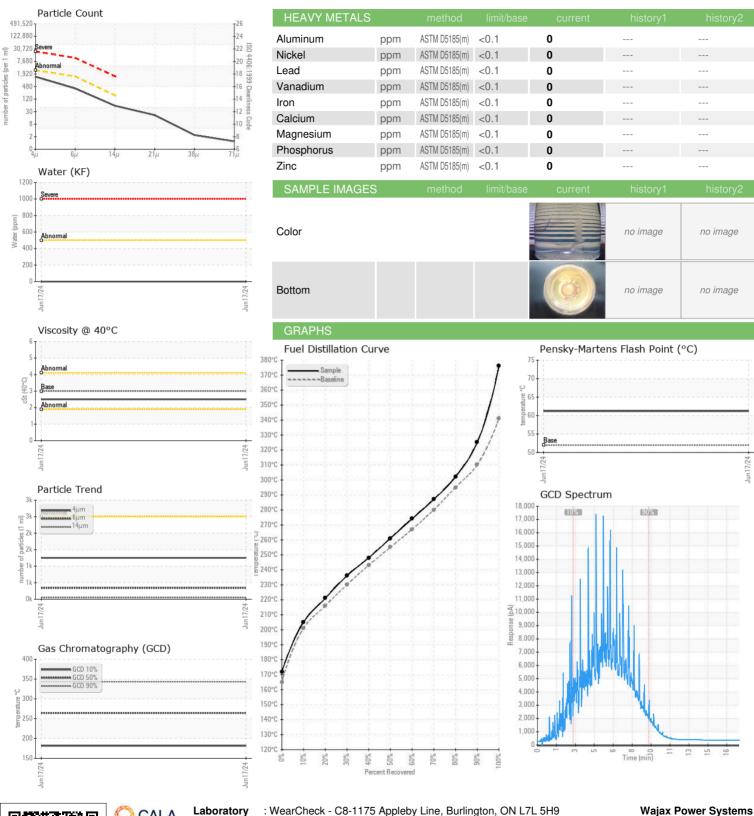
### **Fuel Condition**

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

SAMPLE INFORMATION   method   limit/base   current   history1   history2   Sample Number   Client Info   MA0021956   .	AL)				Jun 2024		
Sample Date   Client Info   17 Jun 2024	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date   Client Info   0	Sample Number		Client Info		WA0021956		
Machine Age			Client Info		17 Jun 2024		
PHYSICAL PROPERTIES   method   limit/base   current   history1   history2		hrs	Client Info		0		
PHYSICAL PROPERTIES   method   limit/base   current   history1   history2					NORMAL		
Specific Gravity	·						
Fuel Color	PHYSICAL PROP	ERTIES	method	limit/base	current	history1	history2
Visc @ 40°C         cSt         ASTM D7279(m)         3.0         2.5             Pensky-Martens Flash Point         °C         ASTM D7215°         52         61.2             SULFUR CONTENT         method         limit/base         current         history2           DISTILLATION         method         limit/base         current         history1         history2           DISTILLATION         method         limit/base         current         history1           Initial Boiling Point         °C         ASTM D2887"         194             10% Distill Point         °C         ASTM D2887"         201         205             15% Distill Point         °C         ASTM D2887"         216         221             20% Distill Point         °C         ASTM D2887"         230         236             60% Distill Point         °C         ASTM D2887"         255         261	Specific Gravity		ASTM D1298*	0.839	0.838		
Pensky-Martens Flash Point   °C   ASTM D7215"   52   61.2	Fuel Color	text	Visual Screen*	Yllow	Yllow		
SULFUR CONTENT         method         limit/base         current         history1         history2           Sulfur         ppm         ASTM D5185(m)         250         28             DISTILLATION         method         limit/base         current         history1         history2           Initial Boiling Point         °C         ASTM D2887*         156         172             5% Distill Point         °C         ASTM D2887*         201         205             15% Distill Point         °C         ASTM D2887*         213             15% Distill Point         °C         ASTM D2887*         230         236             30% Distill Point         °C         ASTM D2887*         230         236             40% Distill Point         °C         ASTM D2887*         255         261             50% Distill Point         °C         ASTM D2887*         280         287             80% Distill Point         °C         ASTM D2887*         313             80% Distill Poin	Visc @ 40°C	cSt	ASTM D7279(m)	3.0	2.5		
Sulfur   ppm   ASTM D5185(m)   250   28	Pensky-Martens Flash Point	°C	ASTM D7215*	52	61.2		
DISTILLATION	SULFUR CONTE	NΤ	method	limit/base	current	history1	history2
Initial Boiling Point   °C   ASTM D2887'   165   172	Sulfur	ppm	ASTM D5185(m)	250	28		
5% Distillation Point         °C         ASTM D2887'         194             10% Distill Point         °C         ASTM D2887'         201         205             15% Distillation Point         °C         ASTM D2887'         213             20% Distill Point         °C         ASTM D2887'         230         236             40% Distill Point         °C         ASTM D2887'         243         248             50% Distill Point         °C         ASTM D2887'         255         261             60% Distill Point         °C         ASTM D2887'         280         287             80% Distill Point         °C         ASTM D2887'         295         302             80% Distill Point         °C         ASTM D2887'         310         325             95% Distillation Point         °C         ASTM D2887'         341         376             Final Boiling Point         °C         ASTM D2887'         341         376	DISTILLATION		method	limit/base	current	history1	history2
10% Distill Point	Initial Boiling Point	°C	ASTM D2887*	165	172		
15% Distillation Point   °C   ASTM D2887'   216   221	5% Distillation Point	°C	ASTM D2887*		194		
20% Distill Point         °C         ASTM D2887'         216         221             30% Distill Point         °C         ASTM D2887'         230         236             40% Distill Point         °C         ASTM D2887'         243         248             50% Distill Point         °C         ASTM D2887'         255         261             70% Distill Point         °C         ASTM D2887'         280         287             80% Distill Point         °C         ASTM D2887'         295         302             85% Distillation Point         °C         ASTM D2887'         295         302             90% Distill Point         °C         ASTM D2887'         310         325             95% Distillation Point         °C         ASTM D2887'         341         376             Final Boiling Point         °C         ASTM D2887'         341         376             IGNITION QUALITY         method         limit/base         current         history1         his	10% Distill Point	°C	ASTM D2887*	201	205		
30% Distill Point   °C   ASTM D2887'   230   236         40% Distill Point   °C   ASTM D2887'   243   248         50% Distill Point   °C   ASTM D2887'   255   261         60% Distill Point   °C   ASTM D2887'   267   274         80% Distill Point   °C   ASTM D2887'   280   287       85% Distill Point   °C   ASTM D2887'   295   302       85% Distillation Point   °C   ASTM D2887'   313       90% Distill Point   °C   ASTM D2887'   310   325       95% Distillation Point   °C   ASTM D2887'   341   376             180 liling Point   °C   ASTM D2887'   341   376         180 liling Point   °C   ASTM D2887'   37.7   37         180 liling Point   370 liling Point   370 liling Point   370 liling Point   370 liling Point	15% Distillation Point	°C	ASTM D2887*		213		
40% Distill Point         °C         ASTM D2887*         243         248             50% Distill Point         °C         ASTM D2887*         255         261             60% Distill Point         °C         ASTM D2887*         267         274             70% Distill Point         °C         ASTM D2887*         280         287             85% Distillation Point         °C         ASTM D2887*         295         302             90% Distill Point         °C         ASTM D2887*         310         325             95% Distillation Point         °C         ASTM D2887*         341         376             Final Boiling Point         °C         ASTM D2887*         341         376             IGNITION QUALITY         method         limit/base         current         history1         history2           API Gravity         ASTM D7637*         <40.0         49             Cetane Index         ASTM D7585(m)         <1.0         0             Silicon	20% Distill Point	°C	ASTM D2887*	216	221		
50% Distill Point         °C         ASTM D2887*         255         261             60% Distill Point         °C         ASTM D2887*         267         274             70% Distill Point         °C         ASTM D2887*         280         287             80% Distill Point         °C         ASTM D2887*         295         302             85% Distillation Point         °C         ASTM D2887*         310         325             90% Distill Point         °C         ASTM D2887*         344             95% Distillation Point         °C         ASTM D2887*         344             Final Boiling Point         °C         ASTM D2887*         341         376             IGNITION QUALITY         method         limit/base         current         history1         history2           ASTM D4737*         <40.0         49             Cetane Index         ASTM D4737*         <40.0         49             Silicon         ppm         ASTM D5185(m)         <	30% Distill Point	°C	ASTM D2887*	230	236		
60% Distill Point         °C         ASTM D2887*         267         274             70% Distill Point         °C         ASTM D2887*         280         287             80% Distill Point         °C         ASTM D2887*         295         302             85% Distillation Point         °C         ASTM D2887*         310         325             90% Distillation Point         °C         ASTM D2887*         344             95% Distillation Point         °C         ASTM D2887*         344             Final Boiling Point         °C         ASTM D2887*         341         376             Final Boiling Point         °C         ASTM D2887*         341         376             IGNITION QUALITY         method         limit/base         current         history1         history2           API Gravity         ASTM D4737*         <40.0         49             Cetane Index         ASTM D4737*         <40.0         49             Silicon         ppm	40% Distill Point	°C	ASTM D2887*	243	248		
70% Distill Point         °C         ASTM D2887*         280         287             80% Distill Point         °C         ASTM D2887*         295         302             85% Distillation Point         °C         ASTM D2887*         310         325             90% Distillation Point         °C         ASTM D2887*         344             95% Distillation Point         °C         ASTM D2887*         341         376            Final Boiling Point         °C         ASTM D2887*         341         376            Final Boiling Point         °C         ASTM D2887*         341         376            IGNITION QUALITY         method         limit/base         current         history1         history2           API Gravity         ASTM D5185(m)         <0.0         49             Cetane Index         ASTM D4737*         <40.0         49             Silicon         ppm         ASTM D5185(m)         <0.1         0             Sodium         ppm         ASTM D5185(m)         <0.1	50% Distill Point	°C	ASTM D2887*	255	261		
80% Distill Point         °C         ASTM D2887*         295         302             85% Distillation Point         °C         ASTM D2887*         313             90% Distill Point         °C         ASTM D2887*         344             95% Distillation Point         °C         ASTM D2887*         344             Final Boiling Point         °C         ASTM D2887*         341         376             IGNITION QUALITY         method         limit/base         current         history1         history2           API Gravity         ASTM D1298*         37.7         37             Cetane Index         ASTM D4737*         <40.0         49             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         <0.1         0             Sodium         ppm         ASTM D5185(m)         <0.1         0             Sodium         ppm         ASTM D6304*         <0.05	60% Distill Point	°C	ASTM D2887*	267	274		
85% Distillation Point         °C         ASTM D2887*         313             90% Distill Point         °C         ASTM D2887*         310         325             95% Distillation Point         °C         ASTM D2887*         344             Final Boiling Point         °C         ASTM D2887*         341         376             IGNITION QUALITY         method         limit/base         current         history1         history2           API Gravity         ASTM D1298*         37.7         37             Cetane Index         ASTM D4737*         <40.0         49             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         <0.1         0             Sodium         ppm         ASTM D5185(m)         <0.1         0             Vater         %         ASTM D6304*         <0.05         0.00             Water         %         ASTM D6304*         <500	70% Distill Point	°C	ASTM D2887*	280	287		
90% Distill Point         °C         ASTM D2887*         310         325             95% Distillation Point         °C         ASTM D2887*         344             Final Boiling Point         °C         ASTM D2887*         341         376             IGNITION QUALITY         method         limit/base         current         history1         history2           API Gravity         ASTM D4737*         <37             Cetane Index         ASTM D4737*         <40.0         49             CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         <1.0         0             Sodium         ppm         ASTM D5185(m)         <0.1         0             Sodium         ppm         ASTM D5185(m)         <0.1         0             Water         %         ASTM D6304*         <0.05         0.00             ppm Water         ppm         ASTM D647         >2500         12	80% Distill Point	°C	ASTM D2887*	295	302		
95% Distillation Point   °C   ASTM D2887*   344         Final Boiling Point   °C   ASTM D2887*   341   376       IGNITION QUALITY   method   limit/base   current   history1   history2     API Gravity   ASTM D1298*   37.7   37         Cetane Index   ASTM D4737*   <40.0   49         CONTAMINANTS   method   limit/base   current   history1   history2     Silicon   ppm   ASTM D5185(m)   <1.0   0         Sodium   ppm   ASTM D5185(m)   <0.1   0         Potassium   ppm   ASTM D5185(m)   <0.1   0         Water   %   ASTM D6304*   <0.05   0.00         ppm Water   ppm   ASTM D6304*   <500   0         FLUID CLEANLINESS   method   limit/base   current   history1   history2     Particles >4μm   ASTM D7647   >2500   1252         Particles >14μm   ASTM D7647   >160   51         Particles >21μm   ASTM D7647   >40   18         Particles >38μm   ASTM D7647   >3   1	85% Distillation Point	°C	ASTM D2887*		313		
Final Boiling Point   °C   ASTM D2887*   341   376	90% Distill Point	°C	ASTM D2887*	310	325		
IGNITION QUALITY	95% Distillation Point	°C	ASTM D2887*		344		
API Gravity       ASTM D1298*       37.7       37           Cetane Index       ASTM D4737*       <40.0	Final Boiling Point	°C	ASTM D2887*	341	376		
Cetane Index         ASTM D4737*         <40.0	IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185(m)         < 1.0         0             Sodium         ppm         ASTM D5185(m)         < 0.1         0             Potassium         ppm         ASTM D5185(m)         < 0.1         0             Water         %         ASTM D6304*         < 0.05         0.00             ppm Water         ppm         ASTM D6304*         < 500         0             FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >2500         1252             Particles >6μm         ASTM D7647         >1300         341             Particles >14μm         ASTM D7647         >40         18             Particles >38μm         ASTM D7647         >10         2             Particles >71μm         ASTM D7647         >3         1 <th>API Gravity</th> <th></th> <th>ASTM D1298*</th> <th>37.7</th> <th>37</th> <th></th> <th></th>	API Gravity		ASTM D1298*	37.7	37		
Silicon         ppm         ASTM D5185(m)         < 1.0	Cetane Index		ASTM D4737*	<40.0	49		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	CONTAMINANTS		method	limit/base	current	history1	history2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Silicon	ppm	ASTM D5185(m)	<1.0	0		
Water         %         ASTM D6304*         <0.05	Sodium	ppm	ASTM D5185(m)	<0.1	0		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Potassium	ppm	ASTM D5185(m)	<0.1			
FLUID CLEANLINESS         method         limit/base         current         history1         history2           Particles >4μm         ASTM D7647         >2500         1252             Particles >6μm         ASTM D7647         >1300         341             Particles >14μm         ASTM D7647         >160         51             Particles >21μm         ASTM D7647         >40         18             Particles >38μm         ASTM D7647         >10         2             Particles >71μm         ASTM D7647         >3         1	Water	%		< 0.05	0.00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			ASTM D6304*		0		
Particles >6μm       ASTM D7647       >1300       341           Particles >14μm       ASTM D7647       >160       51           Particles >21μm       ASTM D7647       >40       18           Particles >38μm       ASTM D7647       >10       2           Particles >71μm       ASTM D7647       >3       1	FLUID CLEANLIN	ESS				history1	history2
Particles >14μm       ASTM D7647       >160       51           Particles >21μm       ASTM D7647       >40       18           Particles >38μm       ASTM D7647       >10       2           Particles >71μm       ASTM D7647       >3       1							
Particles >21μm       ASTM D7647       >40       18           Particles >38μm       ASTM D7647       >10       2           Particles >71μm       ASTM D7647       >3       1	•						
Particles >38μm       ASTM D7647       >10       2           Particles >71μm       ASTM D7647       >3       1							
Particles >71μm	•						
Oil Cleanliness ISO 4406 (c) >18/17/14 <b>17/16/13</b>							
	Oil Cleanliness		ISO 4406 (c)	>18/17/14	17/16/13		



# **FUEL REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number

: WA0021956 : 02644263 Unique Number : 5801802

Received : 26 Jun 2024 **Tested** Diagnosed

: 02 Jul 2024 : 02 Jul 2024 - Kevin Marson

Test Package : FUEL ( Additional Tests: CC Flash, 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.

70 Raddall Avenue Dartmouth, NS **CA B3B 1T7** 

Contact: Danelle Hoffman dhoffman@wajax.com

T: (902)468-6200 F: (902)468-3325