

FUEL REPORT

Sample Rating Trend



74566859 Component

Diesel Fuel

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

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. Laboratory test indicate that this fuel is suitable for use and meets all test requirements. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you filter this fluid before use. Resample in 30-45 days to monitor this situation.

Corrosion

{not applicable}

Contaminants

Particles $>6\mu$ m are severely high. Particles $>4\mu$ m are severely high. Oil Cleanliness are severely high. Particles $>14\mu$ m are abnormally high. Particles $>21\mu$ m are abnormally high. The water content is negligible.

Fuel Condition

The fuel is still serviceable provided that the contaminant(s) can be reduced to acceptable levels. 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).

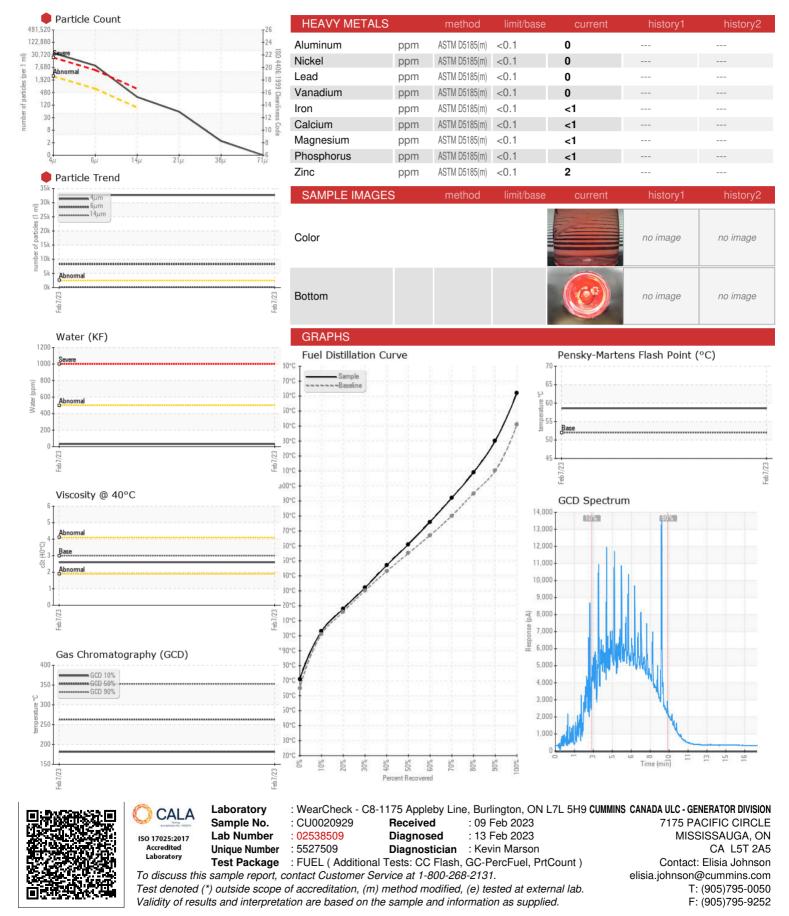
SAMPLE INFORMATICSample NumberSample DateMachine AgeMachine AgeMachine AgeSample StatusPHYSICAL PROPERTISpecific GravityFuel ColortextVisc @ 40°CcStPensky-Martens Flash Point°CSULFUR CONTENTSulfurppmDISTILLATION°C10% Distill Point°C10% Distill Point°C20% Distill Point°C30% Distill Point°C50% Distill Point°C60% Distill Point°C60% Distill Point°C80% Distill Point°C90% Di	Client Info Client Info Client Info ES method ASTM D1298* Visual Screen* ASTM D7279(m) ASTM D7215*	limit/base 10 limit/base 165 201 216	current CU0020929 07 Feb 2023 45 SEVERE O.843 Pink 2.6 58.6 Current 7 Current 171 194 203 210 218 232 247 261	history1	history2 history2 history2 <
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15% Distillation Point°C20% Distill Point°C30% Distill Point°C40% Distill Point°C50% Distill Point°C60% Distill Point°C80% Distill Point°C80% Distill Point°C90% Distill Point°C9	ASTM D2887* ASTM D2887* ASTM D2887* ASTM D2887* ASTM D2887* ASTM D2887*	216 230 243 255 267	210 218 232 247 261		
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30% Distill Point °C 40% Distill Point °C 50% Distill Point °C 50% Distill Point °C 60% Distill Point °C 80% Distill Point °C 80% Distill Point °C 80% Distill Point °C 80% Distill Point °C 90% Distill Point °C	ASTM D2887* ASTM D2887* ASTM D2887* ASTM D2887*	230 243 255 267	232 247 261		
40% Distill Point °C 50% Distill Point °C 50% Distill Point °C 50% Distill Point °C 30% Distill Point °C 30% Distill Point °C 30% Distill Point °C 35% Distillation Point °C 30% Distill Point °C 30% Distillation Point °C 30% Distillation Point °C Final Boiling Point °C IGNITION QUALITY API Gravity	ASTM D2887* ASTM D2887* ASTM D2887*	243 255 267	247 261		
50% Distill Point °C 50% Distill Point °C 50% Distill Point °C 30% Distill Point °C 30% Distill Point °C 35% Distillation Point °C 90% Distill Point °C 90% Distill Point °C 90% Distill Point °C 90% Distill Point °C 95% Distillation Point °C 95% Distillation Point °C 95% Distillation Point °C Ignition QUALITY API Gravity	ASTM D2887* ASTM D2887*	255 267	261		
60% Distill Point °C 70% Distill Point °C 30% Distill Point °C 35% Distillation Point °C 90% Distill Point °C	ASTM D2887*	267			
70% Distill Point °C 80% Distill Point °C 85% Distillation Point °C 90% Distill Point °C 90% Distill Point °C 95% Distillation Point °C 95% Distillation Point °C 95% Distillation Point °C 95% Distillation Point °C 96% Distillation Point °C 97% Distillation Point °C 97% Distillation Point °C 97% Distillation QUALITY API Gravity			276		
80% Distill Point °C 85% Distillation Point °C 90% Distill Point °C 95% Distillation Point °C 95% Distillation Point °C 95% Distillation Point °C 96% Distillation Point °C 97% Distillation Point °C 97% Distillation Point °C 97% Distillation QUALITY API Gravity	ASTM D2887*	280	2/0		
35% Distillation Point °C 90% Distill Point °C 95% Distillation Point °C 95% Distillation Point °C Final Boiling Point °C IGNITION QUALITY API Gravity			292		
90% Distill Point °C 95% Distillation Point °C Final Boiling Point °C IGNITION QUALITY API Gravity	ASTM D2887*	295	309		
95% Distillation Point °C Final Boiling Point °C IGNITION QUALITY API Gravity	ASTM D2887*		319		
Final Boiling Point °C IGNITION QUALITY API Gravity	ASTM D2887*	310	330		
IGNITION QUALITY API Gravity	ASTM D2887*		344		
API Gravity	ASTM D2887*	341	362		
,	method	limit/base	current	history1	history2
Cetane Index	ASTM D1298*	37.7	36		
	ASTM D4737*	<40.0	47		
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185(m)	<1.0	<1		
Sodium ppm	ASTM D5185(m)	<0.1	0		
Potassium ppm		<0.1	0		
Water %	ASTM D6304*	<0.05	0.003		
opm Water ppm	ASTM D6304*	<500	30.8		
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	932664		
Particles >6µm	ASTM D7647	>640	e 8246		
Particles >14µm	ASTM D7647	>80	A 259		
Particles >21µm		>20	<u> </u>		
Particles >38µm	ASTM D7647				
Particles >71µm	ASTM D7647 ASTM D7647	>4	2		
Oil Cleanliness			2 0		

Contact/Location: Elisia Johnson - CUMMISGEN





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