

FUEL REPORT

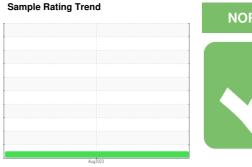
[SC-3456946]
Machine Id 3CX 3143560

Component

Diesel Fuel

Fluid

{not provided} (--- QTS)





DIAGNOSIS

Recommendation

All laboratory tests indicate that this sample meets specifications for No.2 ultra-low-sulfur diesel fuel.

Corrosion

All metal levels are normal indicating no corrosion in the system.

Contaminants

The water content is negligible. There is no bacteria or fungus (yeast and/or mold) indicated in the sample. There is no indication of any contamination in the fuel. The amount and size of particulates present in the system are acceptable.

Fuel Condition

Sulfur value derived by ASTM D5453 method for ULSD validation.

SAMPLE INFORMATION method limit/base current history1 history2 sample Date Client Info JCBDF04580 Client Info darchine Age hrs Client Info 0 Client Info 0 Client Info Client Info 0 Client Info Client In)						
Client Info JCBDF04580 Client Info Achine Age hrs Client Info 14 Aug 2023 Client Info Achine Age hrs Client Info 0 Client Info Client Info 0 Client Info Client Info 0 Client Info Client Client Info Cl	SAMPLE INFORM	MATION	method			history1	history2
Cample Date Client Info 14 Aug 2023		ATION		IIIIII/Dase			
Machine Age hrs							
PHYSICAL PROPERTIES method limit/base current history1 history2 specific Gravity "ASTM D1298 0.838 .					•		
PHYSICAL PROPERTIES method limit/base current history1 history2 specific Gravity 'ASTM D1298 0.838		nrs	Client Info		-		
Company	·				NORMAL		
Time Color Section	PHYSICAL PROP	ERTIES		limit/base	current	history1	history2
STM Color Scalar "ASTM D1500 L3.0 Fisc @ 40°C CSt ASTM D445 2.33 ensky-Martens Flash Point "C "PWCC Cacidaded 62 SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5185m 20 Sulfur ppm ASTM D5453 45 DISTILLATION method limit/base current history1 history2 DISTILLATION method limit/base current history2 history2 DISTILLATION method limit/base current history2 history2	Specific Gravity		*ASTM D1298		0.838		
ASTM D445 Commonstration Commonstr	Fuel Color				Yllow		
PMCC Calculated G2	ASTM Color	scalar	*ASTM D1500		L3.0		
SULFUR CONTENT method limit/base current history1 history2 Sulfur ppm ASTM D5453 20 Sulfur (UVF) ppm ASTM D5453 45 DISTILLATION method limit/base current history1 history2 nitial Boiling Point °C ASTM D86 170 % Distillation Point °C ASTM D86 191 0% Distill Point °C ASTM D86 200 0% Distill Point °C ASTM D86 217 0% Distill Point °C ASTM D86 232 0% Distill Point °C ASTM D86 259 0% Distill Point °C ASTM D86 259 0% Distill Point °C ASTM D86 304 0% Distillation Point °C	/isc @ 40°C	cSt	ASTM D445		2.33		
Sulfur ppm ASTM D5185m 20	Pensky-Martens Flash Point	°C	*PMCC Calculated		62		
DISTILLATION method limit/base current history1 history2	SULFUR CONTER	VT	method	limit/base	current	history1	history2
DISTILLATION	Sulfur	ppm	ASTM D5185m		20		
Distillation Point C	Sulfur (UVF)	ppm	ASTM D5453		45		
% Distillation Point °C ASTM D86 191 <td>DISTILLATION</td> <td></td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history2</td>	DISTILLATION		method	limit/base	current	history1	history2
0% Distill Point °C ASTM D86 200 5% Distillation Point °C ASTM D86 208	nitial Boiling Point	°C	ASTM D86		170		
Symbol S	5% Distillation Point	°C	ASTM D86		191		
Note	0% Distill Point	°C	ASTM D86		200		
10% Distill Point °C ASTM D86 232	5% Distillation Point	°C	ASTM D86		208		
0% Distill Point °C ASTM D86 246 0% Distill Point °C ASTM D86 259 0% Distill Point °C ASTM D86 287 0% Distill Point °C ASTM D86 304 5% Distillation Point °C ASTM D86 313 5% Distillation Point °C ASTM D86 342 5% Distillation Point °C ASTM D86 348 5% Distillation Point °C ASTM D86 348 5% Distillation Residue % ASTM D86 348 5inial Boiling Point °C ASTM D86 1.4 0istillation Loss % ASTM D86 1.4 0istillation Loss % ASTM D8777 37.4 Cetane Index ASTM D5185m	20% Distill Point	°C	ASTM D86		217		
10% Distill Point °C ASTM D86 259	30% Distill Point	°C	ASTM D86		232		
10% Distill Point °C ASTM D86 272	10% Distill Point	°C	ASTM D86		246		
10% Distill Point °C ASTM D86 287	50% Distill Point	°C	ASTM D86		259		
Note	60% Distill Point	°C	ASTM D86		272		
Solution Solution	70% Distill Point	°C	ASTM D86		287		
10% Distill Point °C ASTM D86 324 15% Distillation Point °C ASTM D86 342 15% Distillation Point °C ASTM D86 348 15% Distillation Residue % ASTM D86 1.4 1.4 1.4	30% Distill Point	°C	ASTM D86		304		
10% Distill Point °C ASTM D86 324 15% Distillation Point °C ASTM D86 342 15% Distillation Point °C ASTM D86 348 15% Distillation Residue % ASTM D86 1.4 1.4 1.4	35% Distillation Point	°C	ASTM D86		313		
Solution Solution	90% Distill Point	°C					
Similar Soliting Point °C ASTM D86 348	95% Distillation Point	°C	ASTM D86		342		
Distillation Residue % ASTM D86 1.4 Distillation Loss % ASTM D86 0.9 IGNITION QUALITY method limit/base current history1 history2 API Gravity ASTM D7777 37.4 Cetane Index ASTM D4737 <40.0 48.9 CONTAMINANTS method limit/base current history1 history2 Contaminants history1 history2 Contaminants method limit/base current history1 history2 Contamin					-		
Distillation Loss ASTM D86 D.9 IGNITION QUALITY method limit/base current history1 history2 ASTM D7777 37.4 Cetane Index ASTM D4737 <40.0 48.9 CONTAMINANTS method limit/base current history1 history2 CONTAMINANTS method limit/base current history1 history2 Coldium ppm ASTM D5185m <1.0 2 Codium ppm ASTM D5185m <0.1 <1 Cotassium ppm ASTM D5185m <0.1 0 Cotassium pm ASTM D6304 <0.05 0.008 Company Water ppm ASTM D6304 <500 80.6 Company Water pm ASTM D6304							
ASTM D7777 37.4 Cetane Index ASTM D4737 <40.0 48.9 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0 2 Sodium ppm ASTM D5185m <0.1 <1 Cotassium ppm ASTM D5185m <0.1 0 Vater % ASTM D6304 <0.05 0.008 Symp Water ppm ASTM D6304 <500 80.6 Gasoline % *In-House <0.50 0.00	Distillation Loss						
ASTM D7777 37.4 Cetane Index ASTM D4737 <40.0 48.9 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0 2 Sodium ppm ASTM D5185m <0.1 <1 Cotassium ppm ASTM D5185m <0.1 0 Vater % ASTM D6304 <0.05 0.008 Symp Water ppm ASTM D6304 <500 80.6 Gasoline % *In-House <0.50 0.00	IGNITION QUALIT	ΓΥ	method	limit/base	current	history1	history2
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m <1.0	API Gravity						
Solition ppm ASTM D5185m <1.0 2	Cetane Index		ASTM D4737	<40.0	48.9		
Sodium ppm ASTM D5185m < 0.1 <1 Potassium ppm ASTM D5185m < 0.1	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m < 0.1 <1 Potassium ppm ASTM D5185m < 0.1	Silicon	ppm	ASTM D5185m	<1.0	2		
Potassium ppm ASTM D5185m < 0.1 0 Vater % ASTM D6304 < 0.05 0.008 ppm Water ppm ASTM D6304 < 500 80.6 6 Gasoline % *In-House < 0.50 0.0	Sodium		ASTM D5185m	<0.1			
Vater % ASTM D6304 <0.05 0.008 ppm Water ppm ASTM D6304 <500 80.6 6 Gasoline *In-House <0.50 0.0	Potassium						
pm Water ppm ASTM D6304 <500 80.6 6 Gasoline % *In-House <0.50 0.0	Vater						
% Gasoline							
	% Gasoline						
	% Biodiesel	%	*In-House	<20.0	2.2		



FUEL REPORT





Certificate L2367

Sample No. Lab Number Unique Number

: JCBDF04580

: 05927670 : 10607617

Received Diagnosed

: 23 Aug 2023 Diagnostician : Doug Bogart

Test Package : DF-2 (Additional Tests: Screen) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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T: F: