

Property	Test Method	D975-12a ¹	Tested Fuel Properties ²	
			CARB Diesel	Renewable Diesel
Flash Point, °C	D93	38 min	148	146
Water and Sediment, % vol	D2709	0.05 max	---	---
	D1796	0.5 max	< 0.02	< 0.02
Distillation Temperature, °C90 %, % vol recovered	D86	282 - 338	322	286
Kinematic Viscosity, mm ² /S at 40°C	D445	1.3 - 24.0	2.7	2.5
Ash, % mass, max	D482	0.10 max	< 0.001	< 0.001
Sulfur, ppm (µg/g) % mass % mass	D5453	15 max	4.7	0.3
	D2622	0.05 max	---	---
	D129	2.00 max	---	---
Copper strip corrosion rating (3 h at a minimum control temperature of 50 °C)	D130	No. 3 max	1b	1a
Cetane number	D613	30 min	55.8	72.3
<i>One of the following properties must be met:</i>				
(1) Cetane index	D976-80	40 min	56.8	76.9
(2) Aromaticity, % vol	D1319	35 max	---	---
Operability Requirements			---	---
Cloud point, °C, max	D2500		-6.6	-27.1
<i>or</i>				
LTFT/CFPP, °C, max	D4539 / D6371		---	---
Ramsbottom carbon residue on 10% distillation residue, % mass	D524	0.35 max	0.03	0.02
Lubricity, HFRR @ 60°C, micron, max	D6079 / D7688	520 max	---	---
Conductivity, pS/m or Conductivity Units (C.U.), min	D2624 / D4308	25 min	55	135
Total Aromatic Content	D5186-96	N/A	18.7	0.4
PAH	D5186-96	N/A	1.5	0.1
Nitrogen Content	D4629-96	N/A	1.3	1.3
Derived Cetane #	IQT*	N/A	---	74.7
Gravity, API	D287-82	N/A	39.3	51.3
IBP	D86	N/A	337	326
10%, °F	D86	N/A	408	426
50%, °F	D86	N/A	519	521
EP, °F	D86	N/A	659	568
Pour Point, °C	D-97	N/A	-12	-47

¹ASTM International D975-12a, Standard Specification for Diesel Fuel Oils

²Biodiesel Characterization and NOx Mitigation Study - Durbin et al., 2011