



COMMONWEALTH OF PENNSYLVANIA
PENNSYLVANIA COMMERCIAL ITEM DESCRIPTION (PCID)

PCID NO. 1056

FUEL, DIESEL

Eff. 06/05/19

(This item description supersedes PCID 1056 dated 05/02/16)

This Pennsylvania Commercial Item Description covers requirements for grades of fuels suitable for use in typical diesel engines.

1. **Quality and Materials** - The diesel fuels furnished in accordance with this specification shall be visually free from water, grit, acid and fibrous or other foreign matter likely to clog or injure pumps, nozzles or valves.
2. **Characteristics** -- The fuels shall conform to the chemical and physical characteristics in the following Table.
- 2.1 Reference ASTM Specification D975-19a Standard Specifications for Diesel Fuel Oils or latest version.

Table I:

CHARACTERISTICS	Winter Blend	Grade No. 2-D (S15)
Flash Point °C. min	52	52
Viscosity, mm ² /S at 40°C. (min./max.)	1.9/4.1	1.9/4.1
Cold Filter Plugging Point (CFPP)	-15°F	<u>See footnote</u> ¹
Copper Strip Corrosion (3 hrs. at 50°C.) max.	No. 3	No. 3
Cetane Index, Minimum	40	40
Water and Sediment, max. %	0.05	0.05
Sulfur, max. % mass ²	0.0015	0.0015
Carbon Residue on 10 percent Bottom Ramsbottom max. % mass	0.35	0.35
Distillation Temperature °C 90% , % vol. recovered		
min.	282	282
max.	338	338
Ash % mass max.	.01	.01
On of the following must be met ³ :		
1)Centane Index min.	40	40
2)Aromaticity % vol. max	35	35
Lubricity, HFRR @ 60 °C micron max.	520	520

¹ Standard CFPP for the season at time of delivery.

² Sulfur Content - Sulfur Content shall comply with Federal, State or Local Laws.

³These test methods are specified in 40 CFR Part 80.

3. **Testing** – Testing will be made in accordance with the following ASTM test methods:

<u>CHARACTERISTIC</u>	<u>Test Method</u>
Flash Point	D 93
Viscosity	D 445
CFPP	D 6371
Copper Strip Corrosion	D 130
Centane Index	D 613
<u>CHARACTERISTIC</u>	<u>Test Method</u>

Water and Sediment	D 2709
Sulfur	D 129 and D 2622
Carbon Residue	D 524
Distillation Temperature	D 86
Ash	D 482
One of the following properties must be met: (See footnote 3 above.)	D 976-80 Centane Index D 1319 Aromaticity
Lubricity	D 6079

4. Material Masters – This PCID encompasses requirements for the following material masters:

144137 - DIESEL MOTOR FUEL OIL NO.2,TANK WAGON	UNSPSC Code 15101505
144138 - FUEL OIL,DIESEL,MOTOR, NO.2,TRUCK TRANSPORT	UNSPSC Code 15101505
301672 - FUEL, BIODIESEL, TANK WAGON	UNSPSC Code 15101505
301673 - FUEL, BIODIESEL, TRUCK TRANSPORT	UNSPSC Code 15101505

5. Bulk Delivery – Shall be made in accordance with good commercial practice.

6. Compliance and Testing – Bidders must provide typical test data for all or some characteristics shown in Table I upon request by the Department of General Services, Commonwealth of Pennsylvania. Special requests for fuel testing maybe made by the Department of General Services, Commonwealth of Pennsylvania with the department paying for these tests.

7. Document Sources: American Society for Testing & Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428.

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