



FUEL, DIESEL, INITIAL FILL, ULSD

WSS-M4C119-A

1. SCOPE

The material defined by this specification is a middle distillate petroleum product containing normal commercial additives.

2. APPLICATION

This specification was released originally for material used as initial fill fuel for diesel engines in passenger cars and trucks.

3. REQUIREMENTS

This material must meet the requirements of ASTM D975 Standard Specification for Diesel Fuel Oils plus the following:

3.1 APPROVED SOURCES

This specification requires the use of approved sources. Only the sources identified on the Ford Approved Source List (ASL) can be used when this specification is listed on the drawing, CAD file, or other documents. The list of approved sources is located within Ford at www.mats.ford.com or available externally through a Ford Materials Engineer.

The approved material for this specification is ULS Diesel CP-36 from Shell Canada Products LTD.

3.2 CETANE NUMBER	44 min
3.3 SULFUR (ASTM D5453/ ISO 14596)	15 ppm max
3.4 CLOUD POINT (ISO 3015/ ASTM D2500)	- 25 °C max (Oct – Mar)
3.5 FAME CONTENT (EN 14078/ ASTM D7371)	5.0 % volume max

4. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification. Contact gmfs@ford.com for questions concerning Engineering Material Specifications.

4.1 FLAMMABILITY

This material represents a potential fire hazard. The Manufacturing Engineering Department or other responsible activity shall notify both the Security and Safety Units of its presence to assure that proper fire precautions are provided. The location in which it is used or stored shall be included in the notifications.

Date	Action	Revisions	Rev. 02
2015 08 12	Revised/A-Status	Reactivated, See revision summary	C. Richardson, NA
2010 08 26	N-STATUS	No replacement named	D. DiGregorio, NA
1997 11 10	Activated		M. Riley

**4.2 SAMPLING AND SUBMISSION OF SAMPLES**

(ISO 3170/3171, ASTM D4057 / D4177)

4.3 Quality Control records must be made available to Fuels and Lubricants Engineering upon request.

4.4 APPROVAL OF MATERIALS

Suppliers desiring approval of their materials shall first obtain an expression of interest from Purchasing, Design or Product Development, and Materials Engineering. The supplier shall submit a completed copy of their laboratory test reports, signed by a qualified and authorized representative of the test facility, demonstrating full compliance with all the requirements of the Material Specification. Tested material samples must be available for review upon request and kept for a minimum of one year. Upon request, the supplier will review the associated quality control documents (Process Failure Mode and Effects Analysis, Control Plans, Certification testing) with Ford.

4.5 SUPPLIER'S ONGOING RESPONSIBILITY

All materials must be equivalent in all characteristics to the material upon which approval was originally granted.

Prior to making any changes to the material originally approved, whether or not such changes affect the material's ability to meet the specification requirements, the supplier shall notify the affected Supplier Technical Assistance (STA), Purchasing, and Materials Engineering activities of the proposed changes (with reasons) by submission of a completed Suppliers Request for Engineering Approval, SREA.

For parts and components using Ford Engineering Material Specifications, all samples tested to the specifications for Design Verification (DV), Production Verification (PV) and Production Part Approval Process (PPAP) sign off must be kept until Job 1.

4.6 RESTRICTED SUBSTANCE MANAGEMENT STANDARD

Substance restrictions imposed by regulations or Company direction applies to the materials addressed by this document. The restrictions are identified in the Restricted Substance Management Standard WSS-M99P9999-A1 which is updated yearly. It is the supplier's responsibility to comply with this standard on a continuing basis through IMDS and or GMAP reporting.

5. SUMMARY OF REVISIONS

2015 08 12	Revised Title. Replaced 42Cetane with ULSD Revised scope. Revised sulfur from mass to ppm. Added Flame content requirement. Removed many requirements
2004 04 27	Revised Para 3.0 inserted; paras 3.1, 3.19 & 4 deleted