Fourteen organizations and individuals submitted comments on the proposed First Edition of Biodiesel Guidelines from the Worldwide Fuel Charter (WWFC) Committee. All comments were carefully reviewed and considered. For brevity, the following discussion has been organized by concept rather than by individual comments. Several helpful editorial and technical corrections were adopted but are not described in this document. For reasons of confidentiality, the individual commenters are not identified. As with the WWFC, the Biodiesel Guidelines represent recommendations for a global market, and as such, may differ from the standards of any particular country or location.

General Comments on the Biodiesel Guidelines

Comment: The scope should include other renewable fuels for compression ignition engines.

Response: While other renewable fuels are being developed, methyl ester fuels are already

being produced and distributed worldwide today in significant quantities. The Committee decided to make methyl ester blendstocks the focus of these Guidelines.

Comment: The inclusion of finished fuel (B5) properties conflicts with the Guidelines' scope of

B100 for blending.

Response: The Guidelines are for B100 to be blended in B5 and lower blends. In certain places

in the text, however, the Committee has identified certain areas that relate to both

B100 and finished fuel specifications.

Comment: The Guidelines include too many parameters and taken in total are more restrictive

than any individual regional requirement.

Response: The Guidelines are intended to provide information regarding all parameters that

are involved in defining a quality blendstock. Certain parameters may not be

applicable to specific regions.

Comment: The Guidelines should include recommendations regarding anti-oxidant usage rates

that will provide stability without over additizing.

Response: The type and amount of anti-oxidant required vary depending on the feedstock,

production process and other variables; therefore, it is impractical to recommend

specific usage types and rates.

Comment: The Guidelines include overlapping and potentially conflicting requirements

regarding ester components and stability.

Response: The Guidelines are intended to provide information regarding all parameters

involved in defining a quality fuel. Certain parameters may not be applicable to specific regions, but if the Guidelines are met overall, worldwide B100 distribution

would be facilitated.

Comment: The proposed oxidation stability limit is too stringent, and the requirement exceeds

the requirements in major regional standards.

Response: Fuel production, storage, use and climate vary significantly around the world. The

Committee established the Guidelines to apply to engines and vehicles over this

wide range of conditions.

Comment: The proposed inclusion of change in TAN (delta-TAN) for the finished blend conflicts

with the Guidelines' scope and does not add value.

Response: Delta-TAN is not included among the recommended B100 limits. The Committee is

very concerned with finished fuel stability, however, particularly when the fuel is stored for extended periods, as is common in some regions. The text discusses delta-TAN to increase awareness and educate fuel distributors and users of the potential for using this property and method to evaluate finished biodiesel fuel

blends.

Comment: The inclusion of a limit for Iodine Number and the note regarding differing opinions

is confusing and potentially misleading.

Response: The Committee determined that inclusion of a limit value combined with the note

was the best way to accommodate conflicting information available at this time.

Comment: Flash point is neither required nor appropriately set, based on regional safety and

transportation regulations.

Response: The specified limit provides an appropriate safety guideline. That said, it is not

intended to, and does not, supersede local regulations.

Comment: The proposed limits for water, water and sediment, and total contamination are

overlapping and potentially incompatible.

Response: Different regions have different testing capabilities. Although separate limits for

water and contamination are preferred, the Committee has recommended a combined water and sediment limit for regions where separate analysis is not

available.

Comment: The proposed limit for ash is not required or supported by the prescribed test

method.

Response: The proposed limit is designed to address known problems that higher ash levels

cause with diesel particulate emission controls. Although the Committee is aware of deficiencies in the prescribed test method, it also is aware that enhancements to

the method are available that allow for adequate testing.

Comment: The proposed limits for alkali and alkaline metals are not required. Their influence is

controlled by the specified ash limit.

Response: Alkali and alkaline metals are known to increase fuel injector deposits independent

of their influence on ash content.

Comment: The proposed limit for phosphorus is not required or supported by the given test

method.

Response: The proposed limit is designed to address problems that higher phosphorus levels

cause with exhaust emission control systems. Although the Committee is aware of deficiencies in the prescribed test method, it also is aware that enhancements to

the method are available that allow for adequate testing.