



Oil, Diesel Engine, API CK-4, SAE 15W-40

1 Scope

1.1 Material Description. The material is API CK-4, SAE 15W-40 diesel engine oil.

1.2 Symbols. Not applicable.

1.3 Applicability. This diesel engine oil is intended to be factory-fill and service-fill engine oil for light duty trucks, vans, and medium duty vehicles equipped with diesel engines.

1.4 Remarks. Not applicable.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

API 1509 SAE J300

2.2 GM Standards/Specifications.

GMW3059 GMW14270

2.3 Additional References.

Candidate Data Package (CDP)

Safety and Industrial Hygiene (S&IH) Technical Standard (TS), S&IH TS 3.4-160-02 (available at www.gmsupplypower.covisint.com)

3 Requirements

3.1 General Requirements The engine oil must meet all of the requirements of the American Petroleum Institute (API) Engine Oil Licensing and Certification System (EOLCS) for the API CK-4 category as specified in API 1509.

3.1.1 The engine oil must have a current, valid API license for API CK-4.

3.1.2 The engine oil must meet SAE J300 SAE 15W-40 viscosity grade.

3.2 Test Requirements All engine tests must meet the requirements of CK-4 as shown in API 1509.

Note: www.api.org/products-and-services/engine-oil/eolcs-categories-and-documents/documents/api-1509-documents.

3.2.1 It is General Motors Company's intent that the product actually supplied under this specification (that is, the final formulation) will have passed all requirements defined herein. Any formulation changes/modifications, viscosity grade read across, or base oil interchange utilized in the engine testing program will be considered on a case by case basis. In the event that GM does not agree with the suitability of any read across, base oil interchange, or other change, GM reserves the right to require additional testing.

3.3 Data Requirements. A Candidate Data Package (CDP) must be supplied to General Motors. The CDP must include, but is not limited to 3.3.1 thru 3.3.4.

3.3.1 A summary of all engine tests, chemical and physical tests and elastomer tests.

3.3.2 All test reports obtained for both the candidate oil and appropriate reference oils.

3.3.3 A description of the coding system used to identify Formulation/Stand Code numbers, including the meaning of each letter or number (each digit) used in the code.

3.3.4 A thorough explanation of any differences between the candidate oil formulation and the formulation actually tested in all of tests.

4 Manufacturing Process

Not applicable.

5 Rules and Regulations

5.1 Legal Regulations. All materials must satisfy applicable laws, rules, regulations and recommendations valid in the country of usage.

5.2 Language. In the event of conflict between the English and domestic language, the English language shall take precedence.

5.3 Inspection and Rejection. All shipments of material or parts under contract or purchase order manufactured to this specification shall be equivalent in every respect to the initial samples approved by Engineering. There shall be no changes in either formulation or manufacturing processes permitted without prior notification and approval by Engineering. Lack of notification by the supplier constitutes grounds for rejection of any shipment. While samples may be taken from incoming shipments and checked for conformance to this specification, the supplier shall accept the responsibility for incoming shipments meeting this specification without dependence upon purchaser's inspection.

The series of tests used to approve each batch of product along with acceptance limits will be agreed upon by the purchaser and seller. The laboratory providing the certificate of analysis must also participate in a proficiency testing program (round robin) that is approved by the Fuels, Fluids, and Lubricants Global Subsystem Leadership Team (GSSLT) or designate. The Fuels, Fluids, and Lubricants GSSLT or designate must receive copies of the proficiency testing reports directly from the test program administrator.

5.4 Initial Source Approval. No shipment shall be made by any supplier until representative initial production samples have been approved by the Fuels, Fluids, and Lubricants Global Subsystem Leadership Team or designees meeting the requirements of this specification.

5.5 Material Safety Data Sheets/Safety Data Sheets (MSDS/SDS). For new product submissions, or when a change in chemical composition of an existing product has occurred, a complete copy of the Material Safety Data Sheet/Safety Data Sheet must be submitted in compliance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) requirements or other country-specific MSDS/SDS requirements. In addition, product MSDS/SDS submissions must be in compliance with specific country General Motors S&IH TS 3.4-160-02 where available.

5.6 All materials supplied to this standard must comply with the requirements of the International Material Data System (IMDS) and GMW3059, **Restricted and Reportable Substances**.

6 Approved Sources

Materials supplied to this specification must be approved by General Motors.

The appropriate GM Materials Engineering department(s) must confirm material as meeting the requirements of this specification. Any test data sheets of material submitted to General Motors for such confirmation (e.g., during Production Part Approval Process (PPAP)) under this material specification must list all properties and must apply corresponding test methods of this material specification.

Engineering qualifications of an approved source are required for this standard. Only sources listed in the GM Materials File (i.e., GM SupplyPower) under this standard number have been qualified by engineering as meeting the requirements of this standard. To access this list, reference GMW14270 for latest location.

For other GM locations, the responsible engineering group should be contacted to obtain the approved source in that individual country.

6.1 Oil marketers may not claim to meet this specification in whole or in part without prior GM approval.

7 Notes

7.1 Glossary. Not applicable.