



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

1 Scope

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

1.2 Symbols. Not applicable.

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

2 References

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

2.1 External Standards/Specifications.

API 1509	ASTM D4951	ASTM D6594	ASTM D7109
ASTM D445	ASTM D5185	ASTM D6750	ASTM D7156
ASTM D874	ASTM D5293	ASTM D6894	ASTM D7216
ASTM D892	ASTM D5800	ASTM D6896	ASTM D7320
ASTM D4683	ASTM D5966	ASTM D6984	SAE J300
ASTM D4684			

2.2 GM Standards/Specifications.

GMW3059

2.3 Additional References.

Candidate Data Package (CDP)

TMC003 Material Safety Data Sheet guidance documents (available at www.gmsupplypower.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 CJ-4 category as specified in API 1509.

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

3.2 Test Requirements All engine tests required for API CJ-4 must be conducted according to the procedures specified in the American Chemistry Council's (ACC) Petroleum Additives Product Approval Code of Practice.

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 must be supplied to General Motors. The CDP must include, but is not limited to:

3.3.1 Appendix A, Data Sheets A1 and A2, of this specification completely filled out for the candidate oil.

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 called for in Appendix A, Data Sheet A1, of this specification.

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3.4 Viscosity Grade Requirements The engine oil must conform to the SAE 15W-40 viscosity grade requirements as specified in SAE J300.

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 TMC003 Material Safety Data Sheet/Safety Data Sheet guidance documents where available.

5.6 All materials supplied to this standard must comply with the requirements of GMW3059, **Restricted and Reportable Substances for Parts.**

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.

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.

MATSPC: Global repository of GM approved materials for corresponding GM Engineering Standards.

7.2 Acronyms, Abbreviations, and Symbols.

Δ	Change
ACC	American Chemistry Council
API	American Petroleum Institute
CDP	Candidate Data Package

cP	centipoise
cSt	centistoke
EOLCS	Engine Oil Licensing and Certification System
Evap	Evaporation
FKM	Fluro rubber of the polymethylene type
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
GMPT	General Motors Powertrain
GSSLT	Global Subsystem Leadership Team
KV	Kinematic Viscosity
mg KOH/g	milligram potassium hydroxide/gram (acid value)
MRV	Mini-Rotary Viscometer
MSDS	Material Safety Data Sheet
MTAC	Multiple Test Acceptance Criteria
PPAP	Production Part Approval Process
pts	points (on Hardness Shore Scale)
SDS	Safety Data Sheet
TBN	Total Base Number
TGA	Thermogravimetric Analysis
Vamac G	Terpolymer of ethylene, methylacrylate, and a cure site monomer
Vis	Viscosity

8 Coding System

This standard shall be referenced in other documents, drawings, etc., as follows:

Material per 9985930

9 Release and Revisions

This standard was originated in August 1992. It was first approved by GM Powertrain in September 1992. It was first published in March 1993.

Issue	Publication Date	Description (Organization)
1	MAR 1993	Initial publication. (Powertrain)
2	SEP 1994	Inactive. (Fuels and Lubes Committee)
3	SEP 1997	Reactivated.
4	APR 2001	Upgrade to API CH-4 (GMPT)
5	APR 2003	Upgrade to API CI-4 (GMPT)
6	MAY 2008	Upgrade to API CJ-4 and reformatted (GMPT)
7	JUL 2014	Revised to current template. (Materials – Fuels, Fluids and Lubricants)