



DRAFT TANZANIA STANDARD

Domestic multipurpose lubricating oil- Specification

TANZANIA BUREAU OF STANDARDS

Foreword

This Draft Tanzania Standard is being developed by the Lubricants and Oil Technical Committee under the supervision of the Chemicals Divisional Standards Committee and it is in accordance with the procedures of the Bureau.

This Draft Tanzania Standard is the first edition of Domestic multipurpose lubricating oil - Specification

For the purpose of deciding whether a particular requirement of this Tanzania Standard is complied with, the final value observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with TZS 4 (see clause 2).

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1 Scope

This Draft Tanzania Standard specifies requirements, sampling and test methods for Domestic multipurpose lubricating oil.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ASTM D 92, *Standard test method for flash and fire points by Cleveland open cup*

ASTM D 97, *Standard test method for pour point of petroleum products*

ASTM D 130, *Standard test method for corrosiveness to copper from petroleum products by copper strip test*

ASTM D 445, *Standard test method for kinematic viscosity of transparent and opaque liquids*

ASTM D 664, *Standard test method for acid number of petroleum products by Potentiometric titration*

ASTM D 4052, *Standard test method for density and relative density of liquids by digital density meter*

ISO 24153, *Random sampling and randomization procedures*

3 Terms and definitions

For the purpose of this Draft Standard the following term and definition shall apply:

Domestic multipurpose lubricating oil

lubricating oil used in domestic machines for example saloon machine, sewing machine, chain saw etc.

4 Requirements

4.1 General requirements

The domestic multipurpose lubricating oil shall be colored or colorless.

4.2 Specific requirements

Domestic multipurpose lubricating oil shall conform to the specific requirements given in Table 1 when tested in accordance with the methods prescribed therein.

Table 1 — specific requirements for domestic multipurpose lubricating oil

S/No.	Property	Requirements	Test method and equivalent
i	Color	Shall be Coloured or colourless	Visual inspection
ii	Density at 20 °C, g/l	0.80-0.92	ASTM D 4052
iii	kinematic Viscosity, mm ² /sec at 40 °C, min	7	ASTMD 445
iv	Corrosion, rating, max	1	ISO 4404/ASTMD 130
v	Flash point °C, min.	150	ASTM D 92
vi	Oxidation Test Hours, min	300	ASTM D 2893
vii	Total Acid number (TAN), mgKOH/g, max	0.5	ASTMD 664
viii	Pour point °C, max	-6	ASTMD 97/ASTMD 6749

5. Packaging

Domestic multipurpose lubricating oil shall be packed in suitable containers as agreed between supplier and purchaser, including but not limited to drums, metal tins, and plastic jerry cans. They shall be properly sealed to avoid leakage.

6. Labelling

The following information shall appear on the label of container(s):

- Manufacturer's name and address,
- name of the products,
- trade mark/name if any,
- batch,
- net content,

7.0 Sampling

Sampling for domestic multipurpose lubricating oil shall be done accordance to ISO 24153

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