

Israel Electric Corp. Ltd.  
Generation & Energy Group  
Generation Division  
Chief Chemist Dpt.

חברת החשמל לישראל בע"מ  
חטיבת ייצור ואנרגיה  
אגף הייצור  
מחלקת הכימאי הראשי



|                                                       |                     |
|-------------------------------------------------------|---------------------|
| מס' מפרט: 673 גרסה : 04                               | מפרט טכני לכימיקלים |
| בתוקף מתאריך: 01/06/2011<br>עודכן בתאריך : 17/03/2020 |                     |
| דף מס' 1 מתוך 2                                       |                     |
| הנושא: Transmission Oils                              |                     |

## שם המפרט:

## High Performance Gear Lubricants

| חתימה | תאריך      | שם           |           |
|-------|------------|--------------|-----------|
|       | 01/06/2011 | א' פרומין    | הוכן ע"י  |
|       | 17/03/2020 | ני אבו שקארה | עודכן ע"י |
|       | 17/03/2020 | עי מאיר      | אושר ע"י  |

## 1. Scope

This specification covers the requirements for premium quality extreme pressure gear lubricants formulated with high quality mineral oil and a sulfur/phosphorus additive system, for use at high temperatures, up to **100°C**. The oils intended for use in *Israel Electric* in all types of enclosed gear drives with circulation or splash lubrication systems.

## 2. Suppliers Proposals

Suppliers shall submit with their proposals:

- a technical specification of the product, containing at least, the data required in the *Israel Electric* spec;
- Safety Data Sheet (SDS)

## 3. Specifications and Approvals

3.1 The oils shall meet or exceed the following industry specifications:

- AGMA 9005-D94 EP (at appropriate viscosity grade)
- DIN 51517-3 (CLP)
- ISO 12925-1 Type CKC
- US Steel 224
- David Brown S1 53.101

3.2 The oil must appear on the list of approved oils of the **Flender T 7300 (Table A-a)** specification.

## 4. Additional Technical Requirements

| <i>Israel Electric Catalog Number</i>                     |                    | <b>885426</b> | <b>885442</b> | <b>885483</b> |
|-----------------------------------------------------------|--------------------|---------------|---------------|---------------|
| <b>Characteristics</b>                                    | <b>Test Method</b> |               |               |               |
| ISO VG                                                    |                    | 220           | 320           | 460           |
| Viscosity Index, min.                                     | ISO 2909           | 95            | 95            | 95            |
| Timken OK Load, min., lb                                  | ASTM D2782         | 65            | 65            | 65            |
| 4-Ball EP test:                                           | ASTM D2783         |               |               |               |
| Weld Load, min., kg                                       |                    | 250           | 250           | 250           |
| FZG A/8,3/90°C, Fail Stage                                | DIN 51354-2        | 12+           | 12+           | 12+           |
| Demulsibility, time to 3 ml emulsion @ 82°C, max, minutes | ASTM D1401         |               |               |               |
|                                                           |                    | 30            | 30            | 30            |
| Foam Tendency, Seq I, Tendency/Stability, ml/ml           | ASTM D892          | 0/0           | 0/0           | 0/0           |

## 5. Package

180-240 liter metal drums.