

Technical Document


Artec Machine Systems - Lubrication statement to high speed gearbox installations

The usage of straight mineral oil is the fundamental underlying recommendation of API 613-5th edition. Reference clause 2.8.4. As a result of this recommendation, there is a minimum amount of empirical data available for the extended use of synthetic lubricants, especially those with high levels of additives to improve load carrying capacity.

It is therefore the recommendation of Artec Machine Systems that lubricating oil with the following characteristics is implemented for high speed applications:

- Straight mineral in accordance with ISO 3448
- No load carrying capacity enhancement additives
- Viscosity 32 or 46 (according to the actual specification – see instruction manual)
- Minimum VI Index of 90
- Minimum FZG 6 fail stage. Note: This is a minimum value which needs to be maintained throughout the lubricant life cycle.

Ref: Table 6 – AGMA 6011-D04 and paragraph 6.2.1

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