



# TA 3000-0099C

Technical Instruction

## Procedure for testing the oil service life specific to the plant



© INNIO Jenbacher GmbH & Co OG  
Achenseestr. 1-3  
A-6200 Jenbach, Austria  
[www.innio.com](http://www.innio.com)



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**NOTE**

**Observance of the conditions of this Technical Instruction and performance of the activities described therein is the basis of safe and efficient plant operation.**

Non-observance of the conditions of this Technical Instruction and/or non-performance of the prescribed activities or any departure from the prescribed activities may result in the loss of guarantee rights.

The activities and conditions defined in this Technical Instruction shall be performed and/or observed by the plant operator. This shall not apply if this Technical Instruction is expressly allocated to the area of responsibility of INNIO Jenbacher GmbH & Co OG or a contractual agreement between the operator and INNIO Jenbacher GmbH & Co OG provides for a different arrangement.

**1 Scope**

This Technical Instruction (TA) applies to all INNIO Jenbacher GmbH & Co OG high-speed diesel engines and special products, unless a modified version of this document is provided.

**2 Purpose**

This Technical Instruction describes the procedure for determining the plant-specific oil service life by testing.

Other applicable Technical Instructions:

- TA 3000-0099B: Limit values for used oil in INNIO Jenbacher GmbH & Co OG high-speed diesel engines
- TA 3000-0112: Taking lubricating oil samples / lubricating oil sampling protocol

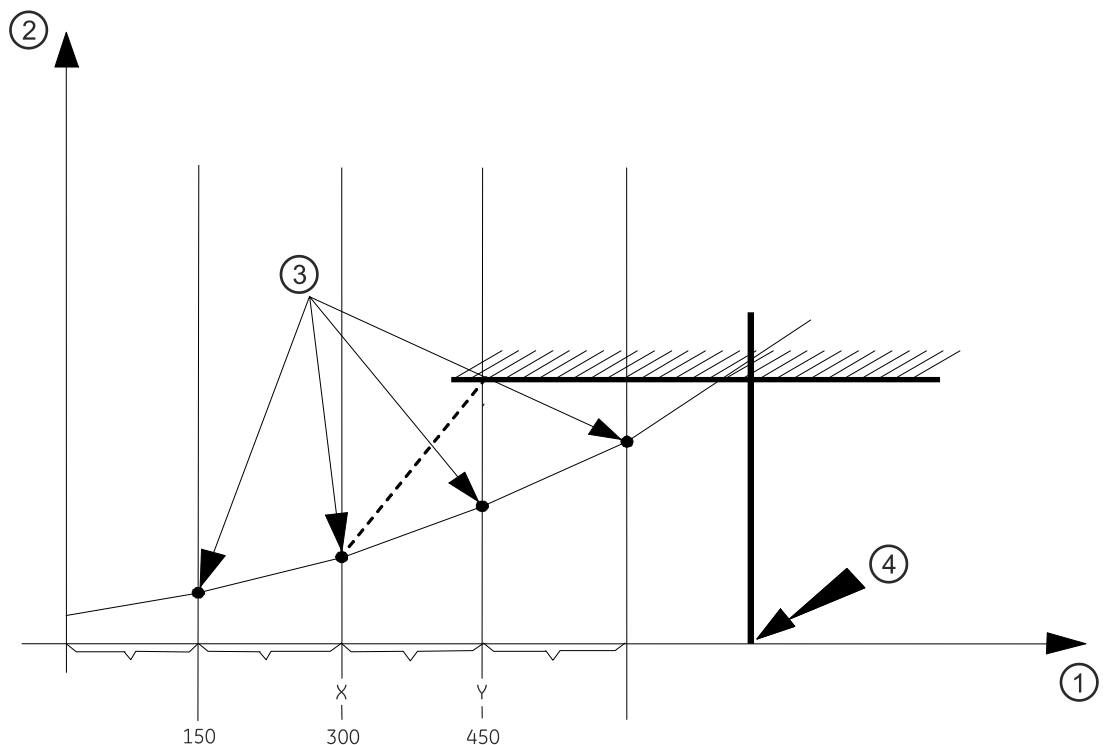
### 3 Brief Instruction

INNIO Jenbacher GmbH & Co OG **does not issue any guaranteed fixed oil change intervals. The lubricating oil in INNIO Jenbacher GmbH & Co OG high-speed diesel engines must be changed depending on its condition.**

#### 3.1 Oil interval (after commissioning or major overhaul of the engine, and engine upgrades)

Diesel fuel: Oil samples every 150 operating hours

The oil must be changed if any measured value has reached its limits under Section 3 of TI 3000-0099B.



① Service life	③ Analysis results in each case
② Numerical value of relevant analysis results - here, only one	④ forecastable end of the service life of an oil filling
<div style="display: flex; align-items: center;"> <div style="width: 50px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div>Test interval (approx. 150 Oh).</div> </div>	
<div style="display: flex; align-items: center;"> <div style="width: 50px; border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div>Limit value as per TI 3000-0099B</div> </div>	

#### 3.2 Oil intervals and all other

Oil sample every 300 operating hours

**ATTENTION**

After commissioning or carrying out maintenance work on the engine, particular attention must be paid to impurities and abrasives in the lubricating oil. If a warning value is reached, contact the technical service hotline.

- See TI 3000-0110, section 3 for impurities.
- See TI 3000-0110, section 3 for abrasives.

**4 Notes****Oil service life**

Lubricating oil in internal combustion engines changes and ages as a function of the operating conditions. The lubricating oil must be changed before it becomes unserviceable.

The service life of a single filling of lubricating oil depends on different factors. The following have a major influence on the oil service life:

- oil consumption
- thermal load on the oil
- mechanical load on the oil
- oil circulation quantity
- Fuel quality
- Brand of lubricant

**Oil change**

When changing the oil, make sure that the residual oil in the engine is kept to a minimum, i.e. by changing the oil filters, draining the oil cooler, etc.

If a change is made to a different brand of lubricating oil, the amount of residual oil held in the engine and storage tank must be kept as low as possible. If oils are mixed, the various oil characteristics can no longer be correctly interpreted.

**Oil analyses**

The analysis reports must be documented and kept by the customer, and made available to INNIO Jenbacher GmbH & Co OG on request.

**Auxiliary tank**

If the oil service life is unsatisfactory, it can be prolonged by increasing the engine oil capacity by adding an auxiliary tank

**Changes in the analysis results trend**

If a value (e.g. "X" in Fig. 1) suddenly exhibits change trends compared to previous analyses, this must be considered an alarm signal, even if the limit has not yet been reached as shown in example "Y" (curve ).

**If you have any questions or require assistance in evaluating the analysis results, call the technical service hotline.**

## 5 Revision code

## Revision history

Index	Date	Description / Revision summary	Expert Auditor
4	15.04.2019	GE durch INNIO ersetzt / GE replaced by INNIO	<b>Opoku</b> <i>Pichler R.</i>
3	27.05.2015	Ergänzung „Klassifizierung – Potenzieller Kunde“ / Additional „Classification - Prospective Customers“	<b>Bilek</b> <i>Kelly</i>
2	06.11.2014	Hinweis zur Einhaltung der Bedingungen / Information on observing the conditions	<b>Bilek</b> <i>Lippert</i>
1	03.04.2014	Erstausgabe / Initial release	<b>Bacher A.</b> <i>Chvatal S.</i>