



# VARTECH<sup>®</sup> Industrial System Cleaner

## Premium performance Industrial System Cleaner

### Product description

VARTECH premium performance Industrial System Cleaner is a deposit cleaning product added directly to the oil in use during operation in order to help clean a system of varnish and sludge deposits before a scheduled oil change.

VARTECH helps prepare the system for optimum performance prior to a new, fresh oil change.

### Customer benefits

- Designed for efficient varnish and sludge removal at scheduled oil changes, helping restore system efficiency with minimal flushing
- Solvent free formulation helps reduce volatility and offers improved seal compatibility
- Helps reduce filter plugging
- Formulated for compatibility with many compressor and turbine mineral and synthetic hydrocarbon based oil products
- Promotes oxidation control retention and performance
- Helps reduce cleaning maintenance downtime

### Product highlights

- **Designed for efficient varnish and sludge removal**
- **Solvent free formulation helps reduce volatility**
- **Helps reduce filter plugging**
- **Formulated for use with compressor/turbine oils**
- **Promotes oxidation control**
- **Helps reduce maintenance downtime**

## Applications

VARTECH Industrial System Cleaner is suitable for use in concentrations between 5% to 20% of the total oil volume in the system. It is designed to be effective under normal operating temperatures, not to exceed 120°C (250°F).

System Condition	Recommended Concentration (Vol%)	Recommended Duration
Reconditioning Maintenance	5%-10%	1-7 days
Heavy Deposit Removal/ Deeper System Cleaning	10%-20%	7-30 days

## Instructions for use

VARTECH Industrial System Cleaner is added directly to the in-service lubricating oil. If the current oil is severely deteriorated, it is recommended the degraded oil be drained, and the cleaner added to a new fill of recommended oil.

1. Determine the amount of cleaner required and the proper duration (see chart).
2. Install a fresh set of filters to maximize varnish and deposit collection.
3. Ensure additional filters are available for the system as filter changes may be required due to release of varnish and deposits.
4. Ensure system does not exceed maximum fill levels when adding the system cleaner; if needed, drain adequate volume of oil to maintain proper operating volume.
5. Add VARTECH Industrial System Cleaner to the system, up to the chosen concentration (by Vol %). Ideally while oil is circulating.
6. Operate the equipment as normal for the chosen duration and monitor filters for increased differential pressure; replace as required.
7. Drain the oil/cleaner mixture from the system while the oil is still warm (safe handling temperatures) and recently circulated. When possible, drain as many locations in the system where oil may get trapped (i.e. filter housings, coolers, piping, de-gassing tanks, etc.).

8. When possible, manually clean any accessible settled deposits and oil from reservoir after drain.

9. System rinse is recommended when any of the following exist:

- Complete drain is not possible (approx. < 10% remains)
- Extremely degraded in-service oil
- Severe deposits in the system

10. Replace filters.

11. Refill the system with Texaco lubricant per OEM specifications.

<sup>1</sup> Extended times beyond times listed above are possible. Contact your Chevron representative for additional guidance and information.

<sup>2</sup> Lower operating temperatures generally benefit from longer circulation times.

## Product maintenance and handling

Avoid any spillage of used and unused product to the environment. Product residue and package/container should be disposed of in dedicated collection points.

\*Typical Shelf Life: (a) if stored under normal conditions and (b) can be extended after re-testing

Disclaimer. Data provided in this PIL PDS is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PIL. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PIL; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PIL.

Typical test data		
Test	Test Methods	Results
<b>Shelf Life: 24 months from date of filling indicated on the product label.°</b>		
Density at 15°C, kg/l	ASTM D4052	0.8803
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s	ASTM D445	53
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s	ASTM D445	7.7
Viscosity Index	ASTM D2270	110
Flash Point, COC, °C	ASTM D92	146
Fire Point, °C	ASTM D92	264
Pour Point, °C	ASTM D5950	-17
Colour	ASTM D1500	<1

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

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When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see [www.texacolubricants.com](http://www.texacolubricants.com).

A Chevron company product