

Metaldyne Viscous Dampers

Formerly Simpson/Holset Viscous Dampers

Some of the engine manufacturers supplied as follows:

ABC
Alpha Diesel / M.A.N. / B&W / Holeby
Adriadiesel
Bergen Diesel (Rolls Royce)
Bolnes (Wartsila)
Baudouin
DDC
Cegielski / Zgoda / Sulzer
Crepelle
Cummins
CAT 3618 - 3608
Daewoo (Khic) Doosan
Deutz (Barreras)
Fincantieri (Gmt) (Wartsila)
Fiat
Guascor
H.H.M. China Q.M.D. Shenfei China D.M.D. China
Hyundai (Himsen) (HHI. RTA Engines)

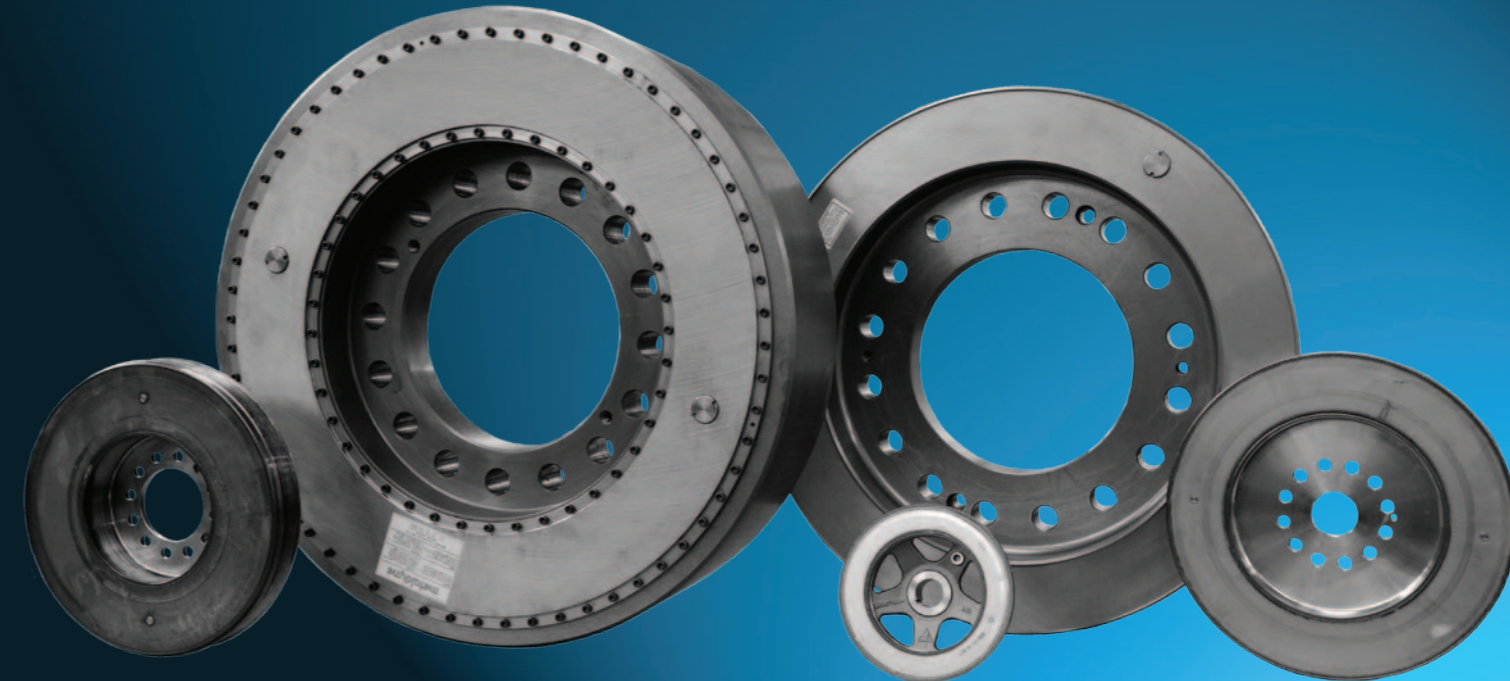
Jenbacher Gas Engines
MAK
M.A.N. Group : Ruston / Paxman / Mirrlees
Mitsui
Nohab (Wartsila)
Paxman (M.A.N.)
Ruston (M.A.N.)
Swd (Stork) (Wartsila)
Sulzer (I.H.I) (RTA Series)
STX Enpaco (Ssangyong)
SKL – Spares
Volvo
W.H.Allen (Rolls Royce)
Waukesha Dresser
Wartsila Group (Wartsila S.A.C.M.)
Wuxi Diesel – Engine G8300 ZC 22BH (Damper Service Available)
Uljanik / Split Diesel / 3MAJ
Yanmar

metaldyne

METALDYNE INTERNATIONAL (UK) LTD

Maintenance and repair of Vibration Dampers

Is your damper providing engine protection?



metaldyne

METALDYNE INTERNATIONAL (UK) LTD

FORMERLY **SIMPSON INDUSTRIES** **HOLSET**

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metaldyne The most comprehensive protection for your investment

METALDYNE INTERNATIONAL (UK) LTD

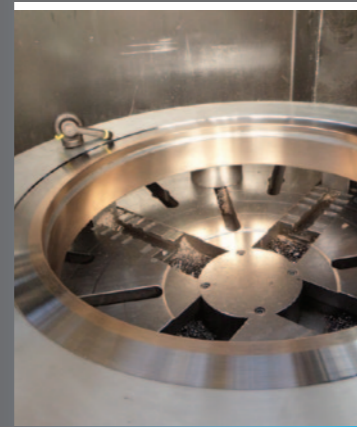
Torsional Vibration Dampers

- **Systematic Fluid Sampling** provides early warning of damper failure
- **Maintenance** saves cost of replacement and down time
- **Service** minimises long term running costs



1 Damper failure resulting from lack of sample analysis – Even up to this point the bearings can be replaced using Metaldyne's expertise.

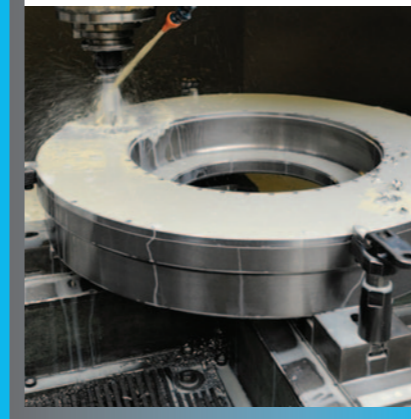
2 Conversion of Lead Bronze bearing to PTFE.



3 Machining inertia ring to remove bearing damage and to prepare a perfect surface that will ensure optimum damper performance.



4 Case cover conversion.



5 Re-assembly, using technically superior material which will greatly extend the operating life of the damper.



6 Fully rebuilt ready for pressure and vacuum testing.



7 The damper is now totally reconditioned and meets the latest technical specification. It is effectively, as new.

In-house servicing of dampers up to 1500mm diameter.

On-site servicing worldwide for dampers over 1500mm diameter.

Emergency service, 7 days a week.

Emergency overhaul within 24 hours.

Re-conditioned dampers can be certified for Classification Societies on request.

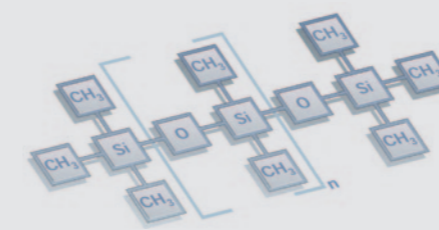
Metaldyne has over 50 years' experience in the field of damper service

and provides the most comprehensive service for all makes and types. The Company has been assessed and approved to the International Quality Assurance Standard ISO 9001.

Our team of technical experts would be delighted to discuss your project and give you the support and advice that you need.

The viscosity of silicone fluid is determined by the chain length of the thread-like molecule. Under adverse conditions, silicone fluid inside the damper tears into smaller chain lengths, leading to a change in viscosity, damping ability and operating efficiency of the unit.

Damping Fluid



Chemical structure of silicone fluid

Dimethyl Polysiloxane, with unbranched chains alternately structured from successive silicon and oxygen atoms saturated with methyl groups.

Sampling

- Regular sampling is the most cost-effective means of ensuring the operating efficiency of your dampers and engine protection
- Expert analysis of a small volume of fluid taken from the damper, in situ, will indicate the internal mechanical condition of the sealed unit
- For a small charge, Metaldyne provides Sampling Kits for this purpose, with instructions for use
- On receipt of the returned sample, laboratory analysis will highlight the fluid viscosity and operating efficiency of the unit
- It is recommended that a fluid sample is taken after the first 15,000-18,000 service hours.

Normally within 24 hours a report will detail the results of the analysis, with recommendations: a) the present condition, b) prognosis of safe service life, or c) action to be taken on a defective unit.

Laboratory analysis of silicone samples

