Volvo Materials Technology – Gothenburg Lab Group BF63980 - Steel and Mechanical Testing

Lina Schäfer **Manager Steel and Mechanical Testing**

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Magsood Ahmad

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Main Competence Areas:

Fatigue and mechanical testing at high temperature, Low cycle fatigue,

Creep, Material data for FE analysis

Typical Components:

Components working at elevated temperature such as exhaust manifold,

Cylinder heads MTS hydraulic system for fatigue testing

Equipment responsibility:

MTS hydraulic system for fatigue testing



Telephone: +46 31 322 0663

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Main Competence Areas:

Residual stress measurements by XRD, Shot peening, Steel

Typical Components:

Pusher and front axles, Axle stubs, Valve springs, Drive shafts, Gears

Responsibility: X-Ray Diffractometers

Alexander Anjevik

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Main Competence Areas:

Surface technology, Wear investigations, Optical profilometry

Typical Components:

Valve system, Cam system, Injectors, Bearings

Equipment responsibility: 3D optical profilometry









Filip Bergman

Telephone: +46 31 322 3362

Email address: Filip.Bergman@volvo.com

Main Competence Areas:

Screw joint testing, Courses in screw joint design

Typical Components:
All types of screw joints
Equipment responsibility:

Screw joint test equipment

Jonas Höijer

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Main Competence Areas:

Forged components, Heat treatment.

Typical Components:

Crankshafts, Connecting rods, Bearings.

Henrik Karlsson

Telephone: +46 323 54 71

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Main Competence Areas:

Powder metallurgy, Steel and heat treatment, Surface technology

Typical Components:

Injector yokes, Valve calipers, Valves and Springs

Daniel Kihlbaum

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Main Competence Areas:

Welding & Brazing, Forged components, Precipitation hardened steels,

SiMo

Typical Components:

Weld- and Brazed Components, Steering arms, Axles, Exhaust

manifolds

Equipment responsibility:

Stereo and Light Optical Microscopes, VMT Webpage

Mikael Nordqvist

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Main Competence Areas:

Welding & Brazing, Stainless Steels

Typical Components:

Weld- and Brazed Components











Dmitrij Ramanenka

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Main Competence Areas:

Screw joint testing; FEM; Mechanical testing

Typical Components: Various components

Fredrik Sandberg

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Main Competence Areas:

Forged Components, Steel & Heat Treatment

Typical Components: Gears and shafts

Equipment responsibility:

Scanning Electron Microscopy & Energy Dispersive X-ray Spectroscopy

Andreas Eriksen Tell

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Main Competence Areas:

Surface technology, X-Ray Diffraction

Typical Components: Various components

Mattias Widmark

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Main Competence Areas:

Fatigue testing and calculation, Fracture mechanics, Defect sensitivity

Typical Components:

Engine and chassis component **Equipment responsibility:**

Macro photo room

Gunnar Åkerström

Telephone: +46 31 322 33 68

Email address: Gunnar.Akerstrom@volvo.com

Main Competence Areas:

Mechanical testing method development, Strength of metallic materials,

Residual stresses

Typical Components:

Crank shafts, Gears, Rocker arms, Springs

Equipment responsibility:

Hydraulic and electromagnetic load frames, measuring systems











Group BF63990 – Cast Materials and New Technologies

Sead Canovic

Manager Cast Materials and New Technologies

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Patrik Alnegren

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Main Competence Areas:

Corrosion, Stainless Steels, Chemistry

Typical Components: Electrical components



Elin Dornerus

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Main Competence Areas:

Electronic components and Environmental testing

Typical Components:

Printed Circuit Boards and Electrical components



Johan Eriksson

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Main Competence Areas:

Grey iron, CGI, Nodular iron, Databases, Image analysis

Typical Components:
Cylinder- blocks and heads
Equipment responsibility:
Image analysis software



Marco Esmaily

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Main Competence Areas:

Magnesium and aluminum alloys, corrosion, additive manufacturing of

light alloys

Typical Components:

Cast components such as cylinder heads, housings and brackets



Markus Björk

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Main Competence Areas:

Sample preparation, workshop, polishing and particulate filter weighing

Typical Components: Anything and everything

Equipment responsibility:

Cutting- and sawing machines, welding equipment, lifting equipment etc.

Sofia Hansson

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Main Competence Areas: Cast iron, cast aluminum Typical Components:

Cast components such as cylinder heads, bearing brackets etc.

Niklas Israelsson

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Main Competence Areas:

Additive Manufacturing, Forging, Steel and heat treatment, Corrosion,

Coatings, Hydrogen compatibility of materials

Typical Components:

Various components in Heavy-Duty Engines

Main Competence Areas:

Additive Manufacturing, Forging, Steel and heat treatment, Corrosion,

Coatings, Hydrogen compatibility of materials

Dazheng Jing

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Main Competence Areas: Ceramic materials, Catalysis Typical Components:

EATS components

Equipment responsibility:

XPS

Joachim Lindkvist

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Email address: Joachim.Lindkvist@volvo.com

Main Competence Areas:

Grey iron, CGI, Spheroidal graphite iron, Supplier assessments,

Remanufacturing

Typical Components:

Cylinder blocks and heads, brackets

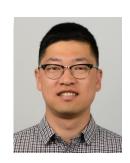
Equipment responsibility:

Hardness machines (Brinell)











Anton Marberg

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Main Competence Areas:

Cast Aluminium

Typical Components:

Cylinder heads and blocks, Brackets, Housings, EGR-components

Equipment responsibility: Heat treatment furnaces

Laura Mazzei

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Main Competence Areas:

Materials characterization, Oxide, Corrosion

Typical Components: Various components

Pål Schmidt

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Main Competence Areas:

Grey iron, CGI, Nodular iron, Cast aluminium, Casting simulation

Typical Components:

Cylinder blocks and -heads, Housings, Brackets

Equipment responsibility: Non-destructive testing

Henrik Svensson

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Main Competence Areas:

Grey iron, CGI, Spheroidal graphite iron

Typical Components:

Cylinder blocks and heads, brackets

Equipment responsibility:

Scanning Electron Microscopy & Energy Dispersive X-ray Spectroscopy

Göran Wahlberg

Telephone: +46 31 322 3377

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Main Competence Areas:

Electrical contacts and electronics

Typical Components:

Connectors, Sensors and Terminals

Equipment responsibility:

Connectors, Sensors and Terminals









