

Volvo Materials Technology – Gothenburg Lab

Group BF63980 – Steel and Mechanical Testing

Lina Schäfer

Manager Steel and Mechanical Testing

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Maqsood 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



Rasha Alkaisee

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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

Telephone: +46 31 322 5561

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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

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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

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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:

Forged components, Precipitation hardened steels, SiMo

Typical Components:

Steering arms, Axles, Exhaust manifolds

Equipment responsibility:

Cutting equipment, VMT Webpage



Mikael Nordqvist

Telephone: +46 31 322 3351

Email address: Mikael.Nordqvist@volvo.com

Main Competence Areas:

Welding & Brazing, Stainless Steels

Typical Components:

Weld- and Brazed Components

Equipment responsibility:

GDOES



Johan Pal

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Main Competence Areas:

Steel & Heat Treatment, Welding

Equipment responsibility:

Chemicals



Dmitrij Ramanenka

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Main Competence Areas:

Screw joint testing; FEM; Mechanical testing



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



Mattias Widmark

Telephone: +46 31 322 3374

Email address: Mattias.Widmark@volvo.com

Main Competence Areas:

Fatigue testing and calculation, Fracture mechanics, Defect sensitivity

Typical Components:

Engine and chassis component

Equipment responsibility:

Macro photo room



Reza Zarabi

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Main Competence Areas:

Screw joint testing

Typical Components:

Screws, nuts, gaskets and rivets



Gunnar Åkerström

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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



Ingemar Bertilsson

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Main Competence Areas:

Cast aluminum, Magnesium, (grey iron)

Typical Components:

Aluminum Pistons, Cylinder Liners

Equipment responsibility:

Material Courses



Hanna Boström

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Main Competence Areas:

Sample preparation and workshop

Typical Components:

All types of materials e.g. steel, cast irons, aluminium, sinter.

Responsibility:

Sample preparation equipment and development.



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:

Stereo and Light Optical Microscopes



Dazheng Jing

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Main Competence Areas:

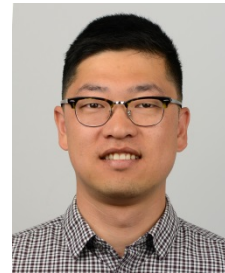
Ceramic materials, Catalysis

Typical Components:

EATS components

Equipment responsibility:

XPS



Joachim Lindkvist

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Main Competence Areas:

Grey iron, CGI, Spheroidal graphite iron

Typical Components:

Cylinder blocks and heads, brackets

Equipment responsibility:

Hardness machines (Brinell)



Anton Marberg

Telephone: +46 31 323 4693

Email address: Anton.Marberg@volvo.com

Main Competence Areas:

Cast Aluminium

Typical Components:

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

Equipment responsibility:

Heat treatment furnaces



Josefin Ratcovich

Telephone: +46 31 32 21 591

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Main Competence Areas:

Surface Technology, Electrical contacts and Sensors

Typical Components:

Connectors, Sensors and Terminals



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

Email address: Goran.Wahlberg@volvo.com

Main Competence Areas:

Electrical contacts and electronics

Typical Components:

Connectors, Sensors and Terminals

Equipment responsibility:

Connectors, Sensors and Terminals

