

Volvo Materials Technology – Gothenburg Lab

Group BF63980 – Steel and Mechanical Testing

Lina Schäfer

Manager Steel and Mechanical Testing

Telephone: +46 31 3234119

Email address: Lina.Schafer@volvo.com



Maqsood Ahmad

Telephone: +46 31 322 3370

Email address: Maqsood.Ahmad@volvo.com

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

Telephone: +46 31 322 0663

Email address: Rasha.Alkaisee@volvo.com

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

Email address: Alexander.Anjevik@volvo.com

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

Telephone: +46 31 322 3354

Email address: Jonas.Hoijer@volvo.com

Main Competence Areas:

Forged components, Heat treatment.

Typical Components:

Crankshafts, Connecting rods, Bearings.



Henrik Karlsson

Telephone: +46 323 54 71

Email address: Henrik.Karlsson.8@volvo.com

Main Competence Areas:

Powder metallurgy, Steel and heat treatment, Surface technology

Typical Components:

Injector yokes, Valve calipers, Valves and Springs



Daniel Kihlbaum

Telephone: +46 31 322 5437

Email address: Daniel.Kihlbaum@volvo.com

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

Telephone: +46 31 322 3351

Email address: Mikael.Nordqvist@volvo.com

Main Competence Areas:

Welding & Brazing, Stainless Steels

Typical Components:

Weld- and Brazed Components



Dmitrij Ramanenka

Telephone: +46 31 322 1092

Email address: Dmitrij.Ramanenka@volvo.com

Main Competence Areas:

Screw joint testing; FEM; Mechanical testing

Typical Components:

Various components



Fredrik Sandberg

Telephone: +46 31 322 2320

Email address: Fredrik.Jt.Sandberg@volvo.com

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

Telephone: +46 313 236 110

Email address: Andreas.Eriksen.tell@volvo.com

Main Competence Areas:

Surface technology, X-Ray Diffraction

Typical Components:

Various components



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



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

Telephone: +46 31 3236482

Email address: Sead.Canovic@volvo.com



Patrik Alnegren

Telephone: +46 31 322 1730

Email address: Patrik.Alnegren@volvo.com

Main Competence Areas:

Corrosion, Stainless Steels, Chemistry

Typical Components:

Electrical components



Elin Dornerus

Telephone: +46 31 322 4376

Email address: Elin.Dornerus@volvo.com

Main Competence Areas:

Electronic components and Environmental testing

Typical Components:

Printed Circuit Boards and Electrical components



Johan Eriksson

Telephone: +46 31 322 3366

Email address: Johan.Lar.Eriksson@volvo.com

Main Competence Areas:

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

Typical Components:

Cylinder- blocks and heads

Equipment responsibility:

Image analysis software



Marco Esmaily

Telephone: +46 76 55 34 480

Email address: Marco.Esmaily@volvo.com

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

Telephone: +46 31 322 6042

Email address: Markus.Bjork@volvo.com

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

Telephone: +46 76 55 36 387

Email address: Sofia.Hansson.2@consultant.volvo.com

Main Competence Areas:

Cast iron, cast aluminum

Typical Components:

Cast components such as cylinder heads, bearing brackets etc.



Niklas Israelsson

Telephone: +46 70 245 90 32

Email address: Niklas.Israelsson@consultant.volvo.com

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

Telephone: +46 31 323 7587

Email address: Dazheng.Jing@volvo.com

Main Competence Areas:

Ceramic materials, Catalysis

Typical Components:

EATS components

Equipment responsibility:

XPS



Joachim Lindkvist

Telephone: +46 31 322 3357

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

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



Laura Mazzei

Telephone: +46 313236938

Email address: Laura.Mazzei@consultant.volvo.com

Main Competence Areas:

Materials characterization, Oxide, Corrosion

Typical Components:

Various components



Pål Schmidt

Telephone: +46 31 322 3367

Email address: Pal.Schmidt@volvo.com

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

Telephone: +46 31 323 7486

Email address: Henrik.Svensson@consultant.volvo.com

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

