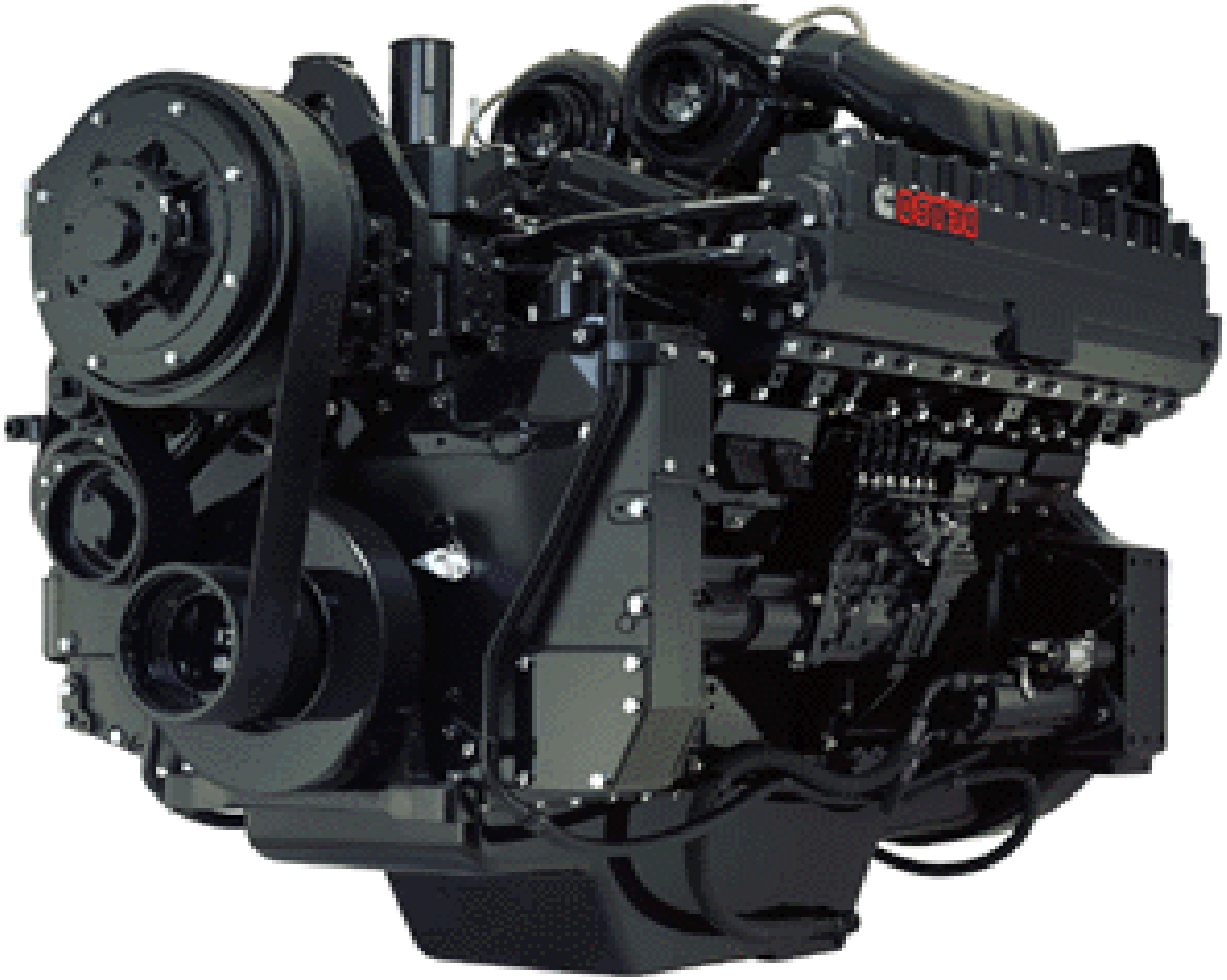

Alan Beale

# QST 30 Training



# Introduction

- Instructor Introduction
- Hotels ~ Transportation
- No Smoking Policy ~ Daventry Plant
- Course Times: 9:00 - 12:00
- Course ~ Defined: 13:00 - 16:30
- Lunch Vouchers

# Introduction Cont..

- WC Location
- Registration Form
- Fire Exits
- Issue List
- Mobile Telephones

# Target Audience

**Field Service Engineers**

**Workshop Technicians**

**Service Managers & Supervisors**

**Marketing & Sales Managers**

# Your Turn

- Trade experience?
- How long in the trade?
- How long with Cummins Engines?
- Hobbies?
- Any claim to Fame?
- What would you like to learn this week?

# QST 30 Training

## Primary Aim

To ensure participants have an understanding of the  QST 30 Engine, to include the basic system flows, engine operation and maintenance. To be able to interpret  operating parameters and some troubleshooting procedures.

## Objectives

Attendees will be able to confidently identify the QST 30, its components be able to describe and evaluate the major flow systems. Have the confidence to converse with end users to assist in evaluating operation and maintenance procedures.

# QST 30 Training

## Primary Aim

To ensure participants have an understanding of the QST 30 Engine, to include the system flows, engine operation and maintenance.

To be able to interpret the **InPower** program operating parameters and troubleshooting procedures.

## Objectives

Participant will be able to successfully sit qualification examinations both practical and theoretical, each of the examinations require a pass mark according to Cummins Engine Company standards. Once qualified the participant will have achieved the level of competency when conducting in his place of employment failure analysis, troubleshooting procedures and repair practices, as required by Cummins Engine Company Ltd..

# General Specifications

Engine type.....4 cycle, 50 degree V 12 cylinder

Turbocharged and aftercooled engine

Displacement.....30.5 liters [1861 cu in]

Bore and stroke.....140 mm x 165 mm [5.51 in x 6.5 in]

Compression ratio:

United States EPA and CARB Tier Two Certified Industrial Engines.....14.7:1
United States EPA and CARB Tier One Certified Industrial Engines.....15.7:1
All other engines.....14.0:1

Power Range……750 to 1500 hp

Firing order.....R1-L1-R5-L5-R3-L3-R6-L6-R2-L2-R4-L4

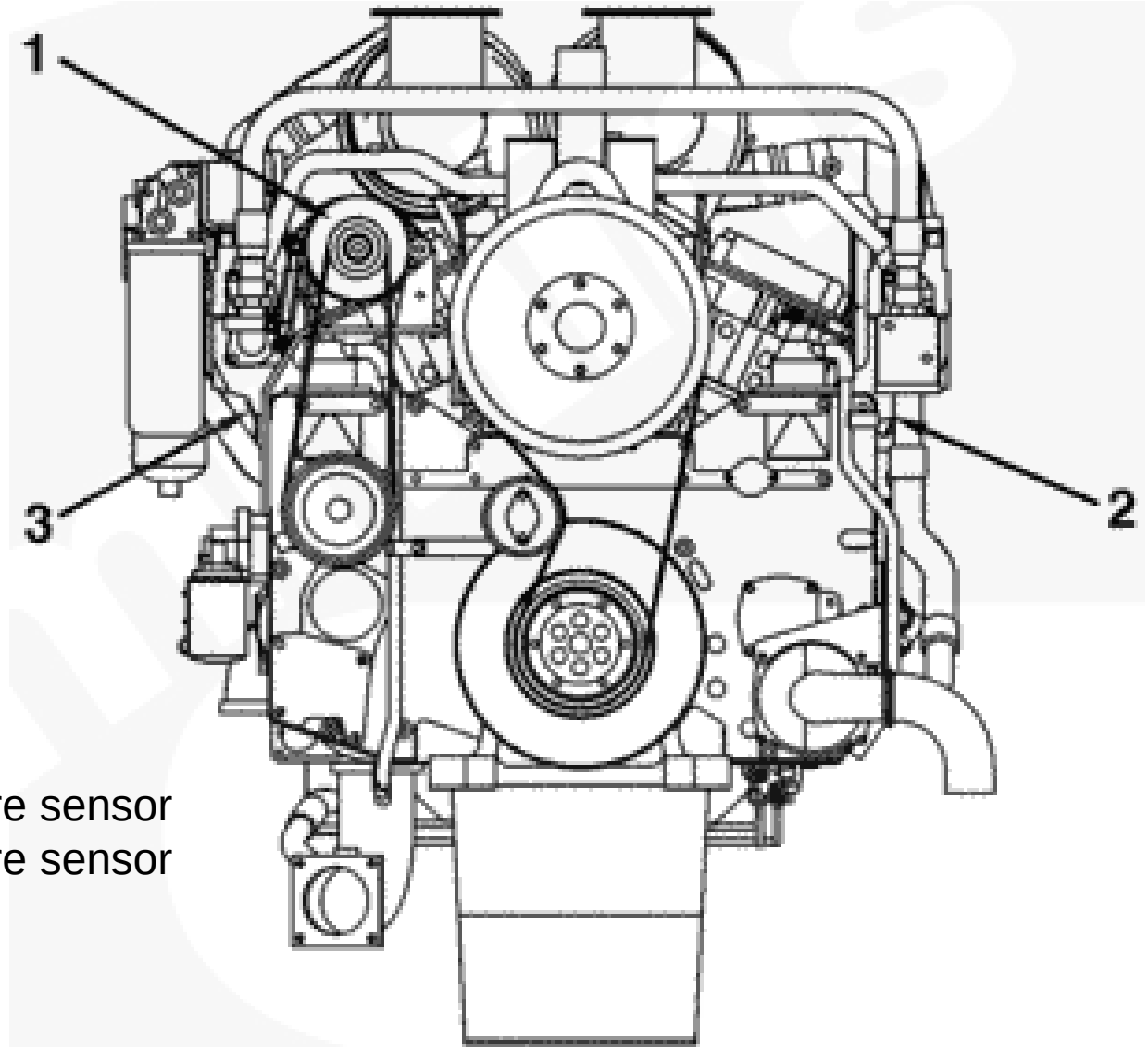
Engine weight.....2998 kg [6610 lb]

Crankshaft rotation (viewed from the front).....Clockwise

Valve settings:

Intake valve adjustment.....0.43 mm [0.017 in]
Exhaust valve adjustment.....0.80 mm [0.032 in]

# General Specifications




1 Alternator
2 Intake manifold 1 pressure sensor
3 Intake manifold 2 pressure sensor