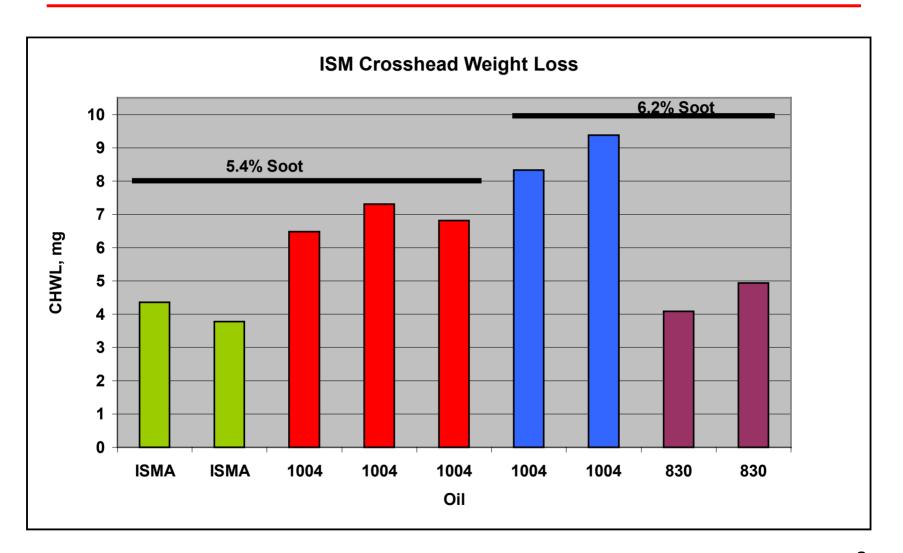
#### **Overview of status of Test Development**

- Initial phase of matrix testing complete.
- Additional data generated on two tests run to 300 hours.
- Statistical data review of the initial phase of matrix is complete.
- Test shows discrimination on CHWL, but other parameters unclear.
- Phase II of matrix underway.

## **Developments since June '04**

- Soot Target changed to 6.5% at 150hrs
- Phase II of test matrix modified.
  - 3 labs (stands) Lubrizol, Perkin Elmer, SwRI
  - 2 oils (1004 and 830)
  - Total of six tests planned as matrix runs
  - Additional data to be supplied by Afton.
- Now running with non-coated intake manifolds
- Referencing requirements for labs debated and passed on to Surveillance Panel for action.
  - First stand 2 runs
  - Second stand 1 run

# **ISM Crosshead Weight Loss**



## ISM Status as M11 EGR Replacement

- CHWL discrimination established
  - Soot correction data to be studies from matrix runs
  - Limits to be set based on 830
- OFDP data correction process under review

## **ISM PC-10 Requirements**

- Valvetrain Wear
  - Crosshead + Adjusting Screw Weight Loss
- Top Ring Weight Loss
- Oil Filter Plugging
- Sludge
- Viscosity Increase
  - Some oils in field showing unexpected increases
  - Correlate ISM with T11
- Possibility of developing a merit system

#### **ISB Status**

- Procedure established
- As many as 7 stands could be installed
- 4 test discrimination matrix in progress
- Cummins will use data from ISM and ISB for determining suitability for field testing
  - Cummins will NOT review any candidate data until matrix testing is done.