InteRRIS® Statistics &
WILD, THD, ABD

MARTS 2007 Annual Technical Conference

Chicago, II

September 13, 2007

RB Wiley, Principal Investigator
Agenda

- *InteRRIS®* WILD Statistics Update
- *InteRRIS®* THD Statistics Update
- Fun with Bearings (… Acoustically Speaking …)
InteRRIS® WILD Statistics Update

WILD Hits/1000 Wheels

- 90-140kips
- 140+kips

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InteRRIS® WILD Statistics Update

WILD Hits/1000 Wheels

80-90kips

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InteRRIS® THD Statistics Update

THD Events/1000 Trucks
(by Criteria)

{ 2x @(0.40--0.55]; 1x >= 0.65 }
InteRRIS® THD Statistics Update (cont.)

THD Events/1000 Trucks (bars) : HI Readings(Hits)/1000 Trucks (lines)

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Example Signature

S/N 54900
MULTIPLE CUP SPALLS
TEST BRG #9

Multiple Cup Spalls

8 kHz
4 kHz
0.5 sec 1.0 sec 1.5 sec 2.0 sec
Bearing Animation – Signature Variation
Summary

◆ Stress State Improving?
  ● Wheel Impacts: Absolutely!
  ● Truck Hunting: Too Early…
  ● Acoustic Bearing: Promising…
Typical Fleet Improvement: Bearings

- Manage bearing maintenance proactively – data driven

Fleet Maintenance Improvement using TADS data from InteRRIS®

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Growler Count
Summary

◆ Stress State Improving?
  ● Wheel Impacts: Absolutely!
  ● Truck Hunting: Too Early…
  ● Acoustic Bearing: Promising…

◆ Multi-media: More where that came from…