

**ROCKY MOUNTAIN MASTER MECHANICS ASSOCIATION
NOVEMBER 29, 30, 2012
RAPID CITY, SD**

Co-Chairman, Mobile	Kelly Hardy	Director	Tom Phillips
Co-Chairman, Plant	Tony Geffre	Director	Bill Ruff
Sec. Treas.	Miles Dockter	Director	Kevin Sondrol

The following individuals were awarded scholarships in 2012.

Matthew Landenberger	Underwood, ND
Nathan Tryon	Gillette, WY
Ethan Barthel	Gillette, WY
Cody Koenig	Beulah, ND
Trapper Rieniets	Gillette, WY

Business meeting;

The next meeting will be held April 25, 26, 2013 at the Rapid City, Holiday Inn.

Scott Anderson has resigned as Chairman of the organization. As a result a decision was made to create a Co-Chairman, Mobile position and a Co-Chairman, Plant position in place of the Chairmanship.

The membership was notified of an election for the Co-Chairman, Mobile position during the April 2013 meeting.

New scholarship forms are being developed and will be available on the RMMMA.org website after the first of the year.

The anti-trust statement was read to the group.

The business portion closed with a reminder to check the website for past meeting notes and information on upcoming meetings.

Fatigue Management

Elizabeth Zacharias
Health/Wellness Specialist
Cloud Peak Energy Resources
Elizabeth.zacharias@cldpk.com

View the Fatigue Management presentation on our website.

Open Discussion

Several companies are doing safety audits with individuals from outside locations doing the inspections. The idea being different sets of eyes will see issues that those who are at the locations on a daily basis may miss due to familiarity.

Natural gas fueled engines in 793's have experienced early failures. Cause of failures believed to be early detonation during compression stroke. Upon inspection overheating was evident along with piston liner and valve recession.

What hours are locations getting on C-32's?

- 15,000
- Depends on application.
- Some locations rolling in bearings at 10,000 hours and setting a goal of 18,000 hours.
- Camshaft problems are common

C-27's

- Valve recession a problem
- Broken valve springs also

Anyone using training simulators?

- Yes, several

Anyone have an idea how to make 16M's easier to work on?

- No

Sprocket Machine in Billings does quality rebuilds on moldboards, drawbars, and circles.

Any problems with 24M circle segments coming loose or falling off?

- Yes, along with shoes and circle drives coming loose.

One location using an 834H exhaust stack on a 24M to help draw exhaust heat away from engine enclosure.

Anyone using In Sync Software?

- No one at this time, but several looking at it.

Anyone having trouble with VIMS inaccuracies?

- Yes, several have found certain data to be inaccurate.

Oil filters coming loose on Cat engines, mainly 3500's and c-32's.

- Very common problem, large show of hands

- Advised to use longer nipple and loctite it in place
- Wyoming Machinery drilled socket and nipple and used set screw in attempt to keep filter in place
- One company using nipples from C-27's and modifying them.

Anyone using Westech truck boxes?

- Yes several, no problems so far.

Filtration carts

- How many are using them?
 - Most everyone
- Anyone using heaters on their carts?
 - One or two are
- Anyone using flow meters?
 - One or two
- Suggestion made to bring machines in at operating temperature when using carts.
- Suggestion made to change cart filters after every hour of use to gain best efficiency from cart.

Any problems with 793D radiators?

- Yes, lots of them.
- Several switching to Mesabi.

B&G Machine, how are they doing?

- Very good on 3500's
 - Their balancing seems to make a difference
- Some issues with 3400's

Several locations having problems with front suspension on 930E's

- No resolution at this time.

Anyone using expander type pins?

- No answer

Anyone heard of Value Parts Undercarriage?

- No

Anyone rebuilding hydraulic cylinders onsite?

- Yes, one location with good results.
 - They have a cylinder bench.

What is everyone doing about Cat roller frames cracking?

- Updating to humpback style of frame has helped

Rebuilt track idlers

- Dimension of center rib of idler very critical when rebuilt
- One location has started to rebuild their own to correct dimension which has increased track life by up to 1000 hours.

EPA Emissions Standards – Tier 4 & Diesel Updates

Steve “ Skinner” Forbush

Arch Coal Technical Service

View the EPA Emissions Standards – Tier 4 presentation on our website.

Bailac Tire

Tooele, Utah

supply@bailacamerica.com

www.bailacamerica.com

Gustavo Irarte

- Company started in 1925 in Argentina
- Came to USA in 2007
- They do repairs and retreads
- Use a controlled vulcanization process
- Send a full autopsy report with every repaired tire
- Use a new retread system called Top Cap
 - Can be done up to three times
- Their compound quality matches OEM
- They have their own trucks for tire transport

Brake Supply

www.brake.com

Bill Brown

bbrown@brake.com

Heavy Equipment Parts and Components

- Some of the companies they are dealers for include:
 - Timken
 - Eaton
 - Denison
 - NTN Corporation
 - Carlisle
 - Rockwell
 - BF Goodrich

- Bendix
- Can supply a wide variety of brake parts and kits
- Have new and exchange hydraulic cylinders, pumps, motors, and valves
- Exchange power train components to include:
 - Torque converters
 - Transmissions
 - Differentials
 - Wheel groups
 - Axles
- Have a large inventory of Caterpillar exchange components
- Their Fort Worth, Texas facility is capable of complete machine rebuilds
- They have formed a partnership with SRC of Lexington, Kentucky to supply rebuilt engines
 - Focus will be on 3400 and 3500 Caterpillar
 - Also 19, 23, and 30 liter Cummins
 - Will carry a one year unlimited hour warranty

Aacme Industrial Services LLC

Wesley R Dowling

307-689-3136

307-685-4806

808 E. 8th St.

Gillette, WY 82716

Design and build custom machine platforms, railings and stairways.

L & M Radiator – Mesabi

Caterpillar Oil Coolers

www.mesabi.com

Steve Smith

ssmith@mesabi.com

Tom Feyder

tfeyder@mesabi.com

- L & M manufactures OEM and replacement radiators and coolers for wide variety of applications
- Currently developing line of oil coolers for Caterpillar trucks
 - 789C, 793C and 793D coolers are currently available

View the Mesabi oil cooler parts list on our website.

Fall Protection

Capital Safety

www.capitalsafety.com

Craig Shur

cshur@shur-sales.com

- Developed mining think tank
 - Purpose was to come up with ways to utilize fall protection on mobile mining equipment
- They have on site fall protection training available
- Have developed anchor systems to tie off on D-11 dozers
 - An anchor post between lift cylinders
 - ROPS plate attached to cab ROPS
- Nano Lok is a lightweight self retracting lanyard
- Their website has a complete listing of available products

