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Firepump Engines

2009 will bring some significant changes to the diesel engine market. Some of these changes are driven by EPA Tier 3 emissions requirements, which go into affect January 1st. Thus, Clark and Cummins are introducing new electronically controlled engines to meet these requirements. In addition, there are a few NFPA requirements that need to be mentioned. Key issues to be aware of:



- Starting January 1st, all engines installed in the US that are 1) ≤ 2650 RPM, and 2) ≥ 175 HP and ≤ 750 HP must meet Tier 3 emissions levels. Engines > 750 HP must meet Tier 2 emissions levels.
- Engine ratings are limited to ± 50 rpm to stay within emissions levels (no range ratings allowed).
- Final destination (City and State) will be required on ALL engine driven firepump orders. This requirement is to verify with the EPA that all engines installed in the US meet current emissions requirements.
- A torsional analysis of the pump/gear/engine setup is required for engine driven vertical turbine firepumps (NFPA 20 7.5.1.6). The torsional analysis is not included in our standard firepump pricing. RTF for price adder.
- UL listed driveshafts are now available from Clark and Cummins (required by NFPA 20 7.5.1.8.1).
- Overall dimensions will change with these new engines & driveshafts.

Pricing and catalog literature will be released very soon. Contact Aurora Pump and Layne / Verti-Line if you have any questions regarding new applications.

Distributor Contest

With the holidays coming up, thought we'd have a little fun with a contest for our distributors. You have the chance to submit pictures of pump installations to enter one of several categories. In each category, the distributor with the winning pump installation will receive a \$300 credit towards the purchase of Layne logo merchandise in our Company Store, to be redeemed in the first quarter of 2009. There's no limit on the number of entries, or the number of categories to enter. As a bonus, if your customer helps in obtaining pictures for the contest, include their name and mailing address with your submission and we'll send them free gift.

The criteria for entering is simple:

- The installation must still be in operation (no locked up or decommissioned pumps).
- Submit several pictures showing the pump, installation, and nameplate with a readable serial number so that we can verify with our records.



- Only true Layne & Bowler / Verti-Line pumps (no competitor's pumps).
- Submit entries anytime between now and Christmas. You can submit as many entries for as many categories as you like. We'll select and list the winners in our January newsletter.

The categories are:

1. Oldest Pump – We're looking for the oldest pump still in operation, with two winners for this category: one for the oldest Layne built in Memphis, and one for the oldest Layne & Bowler (Verti-Line) built in Los Angeles.

2. Deepest setting – Deepest well pump wins. 500 feet? 800 feet? 1000 feet?

3. Oddest Pumping Fluid – What's it pumping? Crude Oil? Propane? Jet Fuel? Beer? Surprise us!



4. Most stages – This one is simple – the most number of stages wins!

5. Weirdest application – We're looking for the really odd stuff here. Maybe you have a turbine laying sideways powered by a horizontal motor. Maybe you have a five stage mixed flow pump. Anything's possible, so don't hesitate to submit an entry.



6. Most Unique Drive – What's powering the pump? An old flywheel engine? Maybe a tractor via driveshaft shaft or ¼ turn flat belt? Or maybe a Chevy 283 Vette motor?

7. Most Pumps in a Row – Another easy one – the most pumps in the picture wins.



Special Edition – Layne Car & Bike Show

One of the biggest events at the plant this year was the 2008 Employee Car & Bike Show, hosted by Layne / Verti-Line. The show took place the last week in September, allowing employees to show off all kinds of toys including motorcycles, cars, trucks, and even tractors. Employees voted on their favorites, with prizes going to first, second, and third place.



Corvettes made their presence known. Daryl Palmer brought his 1985 Corvette (above). Forrest Capp showed off his 1995 Corvette along side with Arnie Sdano's 2008 Corvette (below). Joe Wibberding displayed his 2000 Corvette convertible (bottom).



Jay Crawford's 1966 Tri-Power Pontiac GTO took first place. Doug Foust won third place with his all original 1969 Chevrolet C-10 pickup truck.





Harley Davidson and Honda motorcycles were also out in force. Steve Mowrey showed off his collection of Harley Davidson's as well as his son's hot rod bike (above). Bob and Connie Groves brought their trio of Honda and Harley Davidson motorcycles (below).



This 1979 6.6L Pontiac Trans Am was displayed by Brian Atkins (above). Tom Hoffman brought his Ford 8N and 1978 International Cub Cadet tractors (below). A herd of early 1960's Wheel Horse tractors were also on display by Chris Lula (bottom)



Paul Laratta won second place with his 2001 Harley Davidson (below).



Installations around the Country



Tuscaloosa, AL

16GM – 1 stage
 3,100 GPM @ 90'
 100 HP @ 1800 RPM
 Canned pumps with SDH1225 cast heads
 Sold by Dowdy & Associates

Topeka, KS

Dry-Pit Installation, installed 1982

14RL – 2 stage	14RL – 3 stage
2,000 GPM @ 137'	2000 GPM @ 186'
100 HP	125 HP
1800 RPM	1800 RPM

Two new additional 14RL - 3 stage units are being provided by ASC Pumping Equipment.

