



# The Line Shaft

*The Official Newsletter of the*

## NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB

JUNE 2011

**President:** Blace Flatt  
(973) 663-1090

**Vice Pres.:** Andrew Mackey  
(973) 627-2392

**FOUNDED ON OCTOBER 15, 1979 BY:**  
*Arthur Goble, Fred W. Westbrook, John Snook,  
Roy Bischoff & Lewis Quince*

**Editor:** Tiffany Redding  
(862) 266-4022

**Treasurer:** Eric Hayes  
(973) 670-2956

**Secretary:** Jeff Brooks  
(973) 570-2749

### **Minutes of the May 5th 2011 meeting:**

The meeting was held at the Engine Shed and started at 7:00 PM with 28 members attending. Officers included; Blace, Andy, Eric and Jeff.

#### **Old Business:**

Jeff reviewed the minutes from the last meeting.

The main discussion of the meeting was to get the badges and passes organized for the Fair. Blace and Nick were going to a meeting with the Fair people to get all the information we would need to make a list of club members who would be working during the Fair.

#### **New Business:**

The main object of the meeting was for members to sign up for the fair. Nick and Eric had a handle on the whole process and informed members on how it would work. Members sign up in 4-hour increments when they would be available during the Fair. If you cannot work 40 hours total you will not be receiving a photo pass. Instead you will receive a day pass, which will be handed out for the day(s) you need them.

The question was put forth to members to see if anyone would want to have the News Letter sent to them on their computer instead of by mail. There was zero response from the group.

For the evening lecture we had Andy Mackey give a talk on a Maytag model # 92, ¾ horsepower engine. Andy did a general overview of the engine and some little tricks to maintain and repair these little engines. These little engines had a wide variety of uses from the home to the farm.

We had a great turnout for the Branchville Memorial Day Parade. Kevin Adams did a great job organizing and spearheading the event. Check out the next newsletter for pictures and write-up.

On that note: it was again mentioned, that it is critical for someone (the coordinator?) to do a short write up on each event or parade and to provide a few pictures...for the newsletter...this is all events and parades and is not confined to this parade...

Club member talked about getting the Thursday night "work detail" going this summer as we did in 2010...and a large show of hands showed a positive interest, so we are good to go for 2011.

Andy Mackey JR won the 50/50 of \$26.00.

Tea, coffee and donuts were provided by AnneMarie Adams.

The meeting was adjourned at 8.30

Jeff Brooks ... Secretary

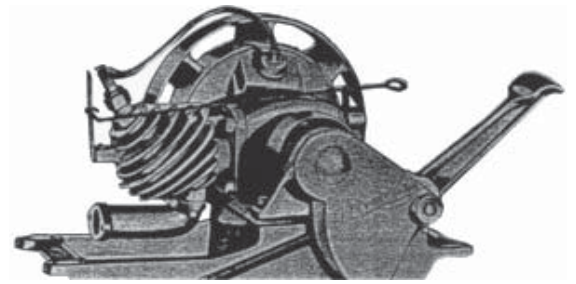


**Our next meeting will be on Thursday June 9th at 7:00 PM at the Engine Shed**

**PLEASE CHECK THE ADDRESS LABEL ON YOUR NEWSLETTER FOR MEMBERSHIP EXPIRATION!**  
(The month listed will be the date when your membership dues are to be paid or this will be your last newsletter)  
Dues are \$15 per year and, checks payable to NJAE&MC

# Maytag Model 92 Multi-Motor

The Model 92 was a 3/4 HP 2 cycle 2 1/2" bore by 2" stroke gasoline engine and the first in the Maytag line of engines to have an engine connected kick start. It was installed on a long line of Maytag produced washers and was adaptable to others. It was produced between 1927 and 1937.



Some interesting points on the Maytag Company. Originally founded in 1893 by Frederick L. Maytag with his two brothers-in-law and George Parson as the *Parsons Band-Cutter & Self Feeder Company*...a farm implement manufacturer...they produced threshing machines, band-cutters and self feeder attachments. Eventually Frederick became the sole owner of the company and renamed it the *Maytag Company*. By the turn of the century they were a "major" farm implement manufacturer, but had also diversified into other lines of manufacturing and products. In 1905 they produced their first washing machine, driven thru a pulley and able to be powered by wind mills, water wheels or farm tractors. In 1910, Frederick left the day-to-day company operations in the hands of his sons to concentrate on other business areas including new innovations of their washing machine now "optionally" powered by a Maytag developed and manufactured gasoline engine and branded as the *Multi-Motor*. The engine powered washer was very popular on rural farms that had not yet received electricity.

The series of Multi-Motor engines would find themselves grafted into a multitude of uses, particularly as farms became electrified and the washing machines engines were replaced by electric motors. The engines were removed and adapted to other uses around the farm. They also found their way into other manufacturers products as they were a low cost, simple and self contained power plant.



A rather unique use of the Multi-Motor engine was in the Maytag Toy Racer. There had been a limited number of hand built one-off powered go-carts, wagons and toy cars build during the 1920's and powered by the Maytag line of engines. These carts and toy cars were often used as carnival attractions and in parades. The Winston Corporation of Joliet Illinois appears to have been the only large scale builder of Multi-Motor powered racers prior to 1930. In the early 30's Maytag decided to join them by producing an upscale and stylish toy car for the children of the wealthy and for their own promotional appearances featuring the Maytag 92 engine. They would continue to produce this toy car until 1941 , when they "geared-up" for war production.

An offshoot company is the *Maytag Dairy* that, since the early 40's, has been producing Maytag Blue Cheese and other fine cheeses found on-line or at upscale markets. Also Frederick "Fritz" Maytag III, great grandson of the founder, bought a failing regional brewery in the 1960's and sent *Anchor Steam Beer* nation-wide...often helping his competitors, he is considered the father of the mico-brewery industry. In 2006 the *Maytag Company* was purchased by *Whirlpool Corporation*.



**Most hit & miss engines are of a 4-cycle design and control their top end speed by dropping the compression, stopping the fuel, and cutting out the ignition while coasting...the Maytag series of engines "only" cut out the ignition. The engine continues to build compression and draw gasoline thru the cylinder, when not firing; and is super inefficient, a fuel waster and a big polluter...but was cheap to build. Some "factions" within the antique engine community do not consider it a true hit & miss engine...most do!**

## IN MEMORIAM: LES STEPHENS

One of our silent members passed away at home on April 28, 2011. He was unable to attend meetings due to health conditions, but he was active in other ways. Les has donated and cooked turkeys and hams for our Christmas Dinners. One of them was a ham with two drumsticks

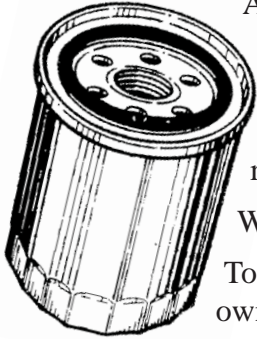




**In early 1954 WIX introduced the first spin-on engine oil filter...they received the patent later in the same year.**

WIX was founded in 1939, in Gastonia N.C., as an aftermarket manufacturer of filters for the automotive, diesel, agricultural and industrial markets. During WWII their entire output was consumed by the American military.

Additionally, they were cited for creating an oil filter out of a paper tube, wooden plugs and yarn as an wartime alternative to the standard filter of the day and lauded for their use of non-traditional products to stretch the resources of the county.



By the late 1950's, their spin-on filter was adopted by all the major automotive manufacturers and retro-fit kits were available for earlier cars, trucks, ag and construction equipment.

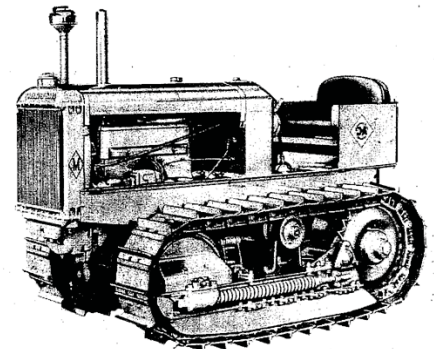
WIX is the only filter officially licensed by NASCAR.

Today WIX is part of the Dana Corporation's Automotive Aftermarket Group and produces both their own and many re-branded filters for the on and off-road markets.

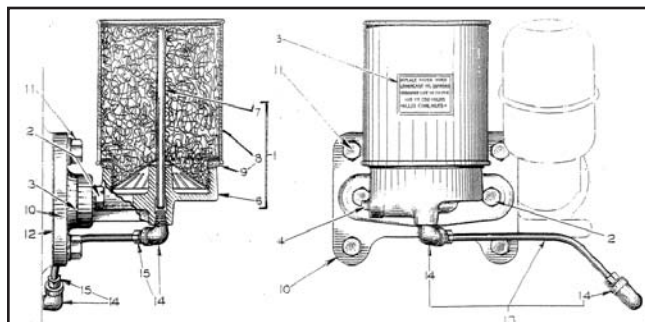
EMCA Archives

### *The rebuttal!*

*Giving full credit to WIX for bringing the modern spin-on filter to both the auto industry and the mass-market, I have to take exception to the title of first! I am the owner of a 1937 Allis-Chalmers M crawler tractor, equipped with an Allis-Chalmers OEM designed spin on filter. The picture below is from the original parts book ( I had to clean the page up a bit to remove the 70 years of mechanics smudges and I hope it prints out legibly) and shows the state-of-the-art for spin-on filters in the late 1930's. The metal canister (8) comes with seal (9) and is pre-stuffed with what appears to be 3 pairs of old socks. There is a formed hole thru the "fiber-filter media" that allow the filter to be "shoved" over the center stand pipe (7) and the canister threads into the base (6). It is "truly" a spin-on filter and remarkably...it is still available as an off-the-shelf item. **The Roy Company**, an old line Allis-Chamber dealer in Branchville NJ, stocks these filters. These same filters were also used on the late 30's and early 40's A, B and U series Allis-Chalmers rubber tired tractors and the Roy Company continues to sell a substantial amount each year. What's really remarkable is that Allis-Chalmers never patented the concept. As the equipment industries first conglomerate they obviously could not see the forest-for-the-trees...and left it to an aftermarket company to see the true potential of the spin-on filter.*



*Jeff Brooks, G&H Service...and Secretary of the North Jersey Engine and Machine Club*



**Both articles are re-prints from the December 2009 issue of Equipment Management News**

# MARKETPLACE

**WANTED:** 14.9 x 24 used tire **CONTACT:** Ken Reuter, 973-670-1646

**FOR SALE:** International Cub Cadet 102; repainted, just needs wire harness. \$400 **CONTACT:** Paul Curcio, 33 Central School Rd., Wantage NJ 07461, 201-835-5924, PaulF350@yahoo.com

**WANTED:** Backhoes-Compact Tractors-Mini Excavators-Skid Steer Loaders-Cletrac & Oliver Crawlers-Farm Tractors-Small Dozers... in any condition. "Top \$ Paid" **CONTACT:** Robert Norman, 845-858-8242

**WANTED:** 3-Point hitch conversion for Farmall "H"  
**CONTACT:** Rich Magera, 973-948-6625

**FOR SALE:** Steam bent ash hardwood walking plow handles; high quality straight grain. \$30 per pair.  
**CONTACT:** Bruce Mitchell, 973-702-1012

**FOR SALE:** Premier Designs jewelry or host jewelry trunk show. Donations to NJAE&MC from sales.

**CONTACT:** AnnMarie Adams, 973-946-1726, AnnMarieBADams@aol.com

**WANTED:** Old, odd or unusual spark plugs wanted by collector. Will buy or trade.

**CONTACT:** Joe Cook, 66 Central School Road, Wantage, NJ 07461 Phone: 973-973-875-9733 E-Mail: [joe.ignitor@gmail.com](mailto:joe.ignitor@gmail.com)

**WANTED:** Good hood & good fenders for Ford 8N (I have bent ones)

**CONTACT:** Jim Dunlap, 973-219-9694

**FOR SALE:** 2 ea. 154 International Harvester Low Boys; one ran 3 yrs ago when shut down, under tarp, has Woods 59 inch belly mower. 2<sup>nd</sup> tractor running, needs brake work, has rear mount 3 point hitch with hammer type mower attachment. Both with long personal ownership. For sale or trade for older Cub Low Boy with plow and/or attachments, or 8/9N Ford.

**CONTACT:** Charles Germershausen at [cgermershausen@hotmail.com](mailto:cgermershausen@hotmail.com) or call cell 1-973-214-5968. Tractors located in Florham Park, NJ.

**WANTED:** Spare parts for 1917 Fairbank/Morse hit & miss engine. Ford Golden Jubilee steering wheel **CONTACT:** Charles Germershausen at [cgermershausen@hotmail.com](mailto:cgermershausen@hotmail.com) or call cell 1-973-214-5968.

**For Sale:** 2 Goodyear 16.9 x 24 6 ply Industrial Sure Grip Tractor/Backhoe tires. Approx 40% tread. Good condition, great for spares. (These tires are \$800 each when new) Asking \$125 each or willing to trade for decent 11.2 x 28 tractor tires for Ford 2N. **CONTACT:** John at 973-919-0369

**WANTED:** Parts for International M Hit or Miss Engine. Piston, sleeve, etc. needed, all parts considered. **CONTACT:** John at 973-919-0369

# LOCAL EVENTS & SHOWS

## ROUGH AND TUMBLE ENGINEERS HISTORICAL SOCIETY

US Route 30, Lancaster PA

[http://www.roughandtumble.org/rt\\_visit\\_sched.asp](http://www.roughandtumble.org/rt_visit_sched.asp)

**June 10&11, 2011 Blacksmith Days**

**July 22&23, 2011 John Deere Show**

**COOLSPRING POWER MUSEUM, Coolspring, PA**

**June 16, 17 & 18, 2011**

**Summer Expo & Flea Market (featuring New York Engines)**

<http://www.coolspringpowermuseum.org>

**HUDSON-MOHAWK CHAPTER OF THE PIONEER GAS ENGINE ASSOCIATION, Schoharie, NY**

**June 11&12, 2011 44<sup>th</sup> Annual Gas-Up**

For more information Doug Gallup 518-872-0564

[www.gasup.org](http://www.gasup.org) or e-mail [Howardsquire@aol.com](mailto:Howardsquire@aol.com) for information

**LONG ISLAND ANTIQUE POWER ASSOCIATION**

Jamesport, NY [www.liapa.com](http://www.liapa.com)

**July 16 & 17, 2011 19<sup>th</sup> Annual Summer Show**



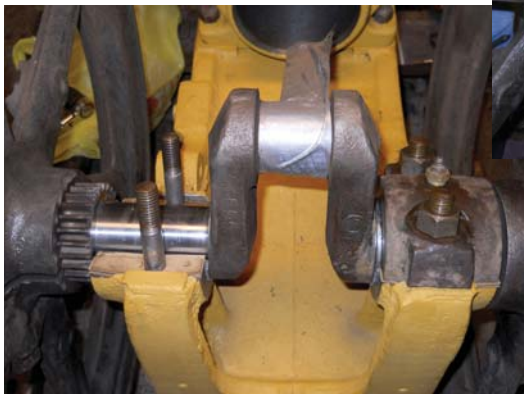
*Working on fuel tank*

# HERCULES PROJECT

*Setting the bearings*



*Bench testing the compressor with electric motor*



*Crankshaft & piston - back in service*

