SURPRISING RESULTS OF OIL FUEL ON TUG McDOUGALL.

Radius of Action of Steel Towboat Has Been Greatly Increased, as the Vessel Can Now Go Eleven Thousand Miles Without Restocking Bunkers—Fuel Is Carried on One of Tug's Barges.

WRITTEN FOR THE SUNDAY REPUBLIC.

The conversion of the big low-pressure tug McDougall into an oil burner has been attended by some remarkable results. Everybody connected with the vessel is delighted with the new fuel and the way the ship performs under its use.

As the McDougall is the first vessel coming to the port of St. Louis to be equipped with the oil atomizers, her experience is of more than passing interest, not only to the navigation fraternity, but to the general public as well. The results attained on the McDougall are summarized by Mr. Thompson, superintendent of the St. Louis Steel Barge Company, which owns the tug and her consorts, as follows:

First—The cost of fuel is 40 per cent less.

Second—The vessel will run four times as far with her bunker capacity full of Texas oil than with same bulk of Pool No. 2 Youghiogheny coal. (This coal analyzes from 72 to 74 per cent of fixed carbon on an average and is considered the Western market coal standard.)

Third—Two men at the fire-boxes instead of four feed the fuel and regulate its combustion.

Fourth—Everything is clean. The noise and severe labor of stoking, especially on the lower waters, where the heat is greatest, are wholly obviated.

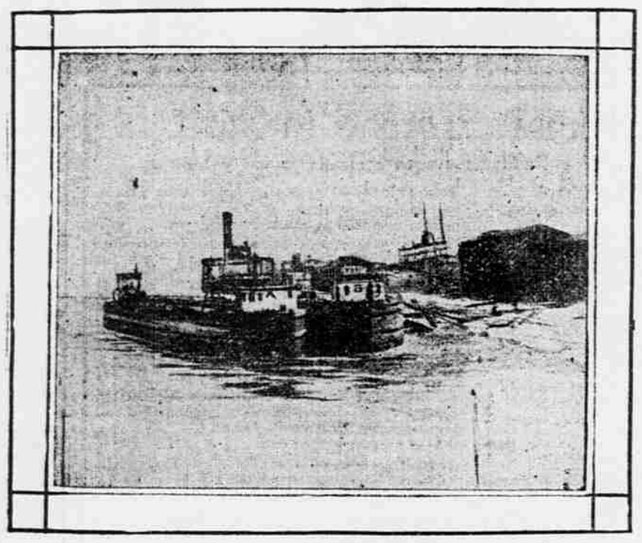
Fifth—The delay and extra labor expense of coaling are done away with. When the vessel filled her bunkers with oil at New Orleans it took but an hour, all told, and it was attended by no trouble or expense for labor whatever.

"To say that we are pleased with the change is putting it very mildly," said Mr. Thompson recently. "Even if there were no saving in the cost of fuel we would not think of going back to coal. With oil we get a better, more uniform supply of steam; it is far cheaper, less trouble, more cleanly; in every way better than solid fuel. There is a slight odor of oil, but you don't notice that after being on board an hour. There is also a little noise attending combustion. It might be compared to running a wheelbarrow over our steel deck—no louder than that—and after a short time that is not noticed at all. Aside from the question of economy, the cleanliness of oil for fuel is a very pleasing feature on board. We can now sweep or wash down decks and they stay as clean as a parlor floor. Three and a half barrels of oil do the work of a ton of coal, and the stowage of a big lot of fuel for a long run is also a great thing. We are not stopping every little while now to take coal. We have enough on board to carry the vessel and tow back South and more."

The only really surprising thing about the McDougall's new fire rig is the great extension of her radius of action. Before it was about eight days, the vessel burning about a ton an hour. Now she goes more than thirty days without restocking. At the average speed of fifteen miles an hour, which the tug will easily do, her radius is something more than 11,000 miles. The best ocean steamers are limited in radius to 3,300 miles, and the best cruiser class of naval ships, such as the Brooklyn, Admiral Schley's flagship, come within 6,000 miles. This is a highly important feature of oil combustion, and if the ideas of George W. Melville, the great Admiral-Engineer of the navy, shall prevail, and oil burners be installed aboard all the fighting ships, the Brooklyn could then steam around the world without filling her bunkers a second time.

At the Carondelet ways one of the McDougall's barges is being fitted with a midship deck, with compartments below to fit her for carrying oil in bulk. One of the company's officers says it is their purpose to extend their facilities for carrying oil as the market shall expand, and before long the handling of oil is expected to become an important part of the vessel's work. No oil will be brought to St. Louis, as it cannot be brought this far and sold in competition with the coal of the Illinois and Missouri mines, but there is an expanding market farther south, which will give the line what it can do, along with its other work.

The company has made a deal by which it has become part owner of the Spindletop oil gusher and pipe line of the Sarpy Oil and Transportation Company of New Orleans, and the ocean-going tug Samson, belonging to the Sarpy Company, will do the towing in the Gulf. But this arrangement is only one of a number of similar enterprises organized to carry fuel oil from the Texas field up the Mississippi, and thus, little by little, the oil opposition to the soft coal trust is taking form. It is interesting to note that the regular shipments by rail and water from the Spindleton field, mainly to Louisiana and Southwest Texas, now exceed 1,000,000 barrels a month, or the equivalent of more than 325,000 tons of Youghiogheny coal.



STEEL TUG McDOUGALL, ANCHORED AT CARONDELET.

Yes you can

repair &

Sharpen

BRAINS

It's Easy to do things and

Make Money

in this world when your Brains and Nerves are given the right food.

But people don't believe it until they make their own trial of

Grape-Nuts.

Try leaving off your old way of eating and see for yourself.

This for breakfast. A little fruit, a dish of Grape-Nuts. Some rich cream poured over. Two slices of toast baked hard, 2 soft eggs, 1 cup Postum Coffee (well-made and strong). No more.

Our word for it your whole body will feel the "Divine Energy" of returning health and more noticeable than anything else will be the snap and go of a strong, active, clear and working brain that can plan and do things.

We can give you the name of a man who has made upwards of a million dollars a year out of his strong brain since using Grape-Nuts and he didn't have that kind of brain before.

These are facts worth your attention and careful thought.

Scientific research has produced a True Brain Food and its name is Grape-Nuts.

TRADE IN FOOTWEAR SHIFTS FROM BOSTON

St. Louis Shipments for First Seven Months Exceed by 50,000 Cases Last Year's Record.

BUSINESS IN EAST DECREASES.

Two Hundred and Fifty Thousand Less Cases of Shoes Are Shipped From the Hub in the Same Period.

Commenting on the advance of St. Louis in the shoe manufacturing business in the last ten years, the Shoe and Leather Gazette of St. Louis has computed a report of shipments in the first seven months of 1901 and 1902 for St. Louis and Boston.

A comparison of these reports show St. Louis to have increased its own trade by 49,000 cases in the first seven months of this year over the same period last year. A similar comparison of reports from like sources shows that the shipments from Boston are for the first seven months of 1902 332,586 cases less than for the same period last year.

St. Louis Shipments for August.

The shipments from St. Louis for each month to August 1 in 1901 and 1902 were as follows:

	Cases. 1901.	1902.
January	84,831	93,285
February	85,144	81,587
March	96,432	94,561
April	93,064	92,445
May	95,224	96,130
June	86,570	97,610
July	84,959	99,344
Total	616,003	655,983
Average monthly	88,014	93,997
Total increase over 1901	49,956	

"These figures," says the Gazette, "are very satisfactory, considering the state of retail trade in a large portion of the West last fall and winter. There was precious little buying in the farming districts where the drought had scorched its way, and retail stocks stood stock still. St. Louis was almost in the center of the dryest part of the United States, and a sharp drop might have been expected.

"In but one month in 1901 did shipments reach 90,000 cases.

"In only one month so far this year have they fallen below that number."

Increase for Ten Years.

In the decade from 1890 to 1900 the increase of shoe manufacturing in Missouri was more than 132 per cent over the manufactures for the previous ten years.

St. Louis and Cincinnati have made the greatest advance among the more important manufacturing centers, St. Louis advancing from ninth to fourth place.

"It is to be noted that all Western shoe towns," says the Gazette, "are shoe manufacturing towns, and all of them sell direct to the retail trade, whether they sell their own product or combine Eastern lines in jobbing.

"All Western towns are working into still better grades in manufacturing, and sending East only for the cheaper grades and the fancy specialties at the top of the price list."

AMERICAN WOMEN PAY FORTUNES FOR DRESS

Paris Dressmakers Derive Income of $4,000,000 From Wives of Yankee Millionaires.

SPECIAL BY CABLE TO THE NEW YORK HERALD AND THE ST. LOUIS REPUBLIC.

Paris, Aug. 30.—(Copyright, 1902.)—The Petit Parisien has been investigating the revenue which the Rue de la Paix and the Avenue de l'Opera derive from Americans. The annual total is estimated at $4,000,000.

Mrs. J. Pierpont Morgan spends money royalty. Mmes. Carnegie, Schwab and Vanderbilt are also splendid customers. Mrs. John T. Yerkes every season buys $20,000 worth of Paris dresses. Each of Mrs. Mackay's orders amount to $35,000. Mrs. Astor is another well-known figure in Paris shops.

Among the Americans in Paris are Colonel Samuel Pomeroy Colt, who has returned from Aix les Bains and Switzerland; Mr. Clarence Jones, who is back from Brussels; Mr. and Mrs. H. Stern and family, Mrs. W. H. Hamilton, Mrs. H. Knickerbocker, Miss A. S. Stephens, Mr. W. S. Wyckoff, Mr. and Mrs. William Babcock, Mr. Greenville Clark, Mr. and Mrs. Frank W. Woolworth and family, the Misses F. and Alice A. Bates, Mr. and Mrs. W. J. Walburton, Mr. and Mrs. Henry Arthur Benedict, Miss Benedict, Mrs. B. H. Nicoll, Mrs. James Brown Lord, Mr. J. Cowper Lord, Mr. and Mrs. Harris Fahnestock and Mr. and Mrs. James H. Benedict.

TWO INTERESTING LONDON ENGAGEMENTS ANNOUNCED.

SPECIAL BY CABLE TO THE NEW YORK HERALD AND THE ST. LOUIS REPUBLIC.

London, Aug. 30.—(Copyright, 1902.)—An interesting engagement, a result of the recent London season, is that of Lady Audrey Rider and Mr. Charles Anson, which has just been announced. Lady Audrey is the youngest daughter of the late Earl of Harrowby and sister of the present peer. Her first name is Adelaide, but she is more generally known by her second. She has been out only a few years. She is a pretty, pleasant girl who has every one's good wishes.

Her fiance is a brother of the Earl of Litchfield. He has a considerable share of good looks of his race, and a hero as well, having served in South Africa, where his gallantry and wounds procured for him honorable mention in the dispatches.

Another engagement which has caused a deal of interest in society is that between Lady Clare Gorelangton and Mr. T. F. Egerton, only son of the late Major Egerton, of the Mount, Yorkshire. Lady Clare is the youngest daughter of the late Lord and Lady Temple, and is a most charming girl.

MORGAN REWARDED TEACHER.

New York Woman Is Well Paid for Giving Fire Alarm.

REPUBLIC SPECIAL.

Middleton, N. Y., Aug. 30.—Mary C. Terwilliger, who presides over the Searsville district school, has just been rewarded with a check for $250 from J. Pierpont Morgan for discovering a fire in March last in his home at Highland Falls and giving an alarm.

Money Strangely Recovered.

Lancaster, Pa., Aug. 30.—After having been lost for twelve years, through changes in the city administration, thirteen $1,000 bonds of the Buchanan-McEvoy Relief Fund were found in a deposit box in the Lancaster Trust Company. The bonds were deposited during the administration of Mayor Clark, and all trace of them was lost until the repository was discovered by the City Clerk. The bonds are part of a fund established to purchase coal for the poor of the city.

Burglars at Camp Meeting.

Chester, Pa., Aug. 30.—Burglars visited the Twin Oaks camp meeting grounds in search of the money held by the treasurer, the Reverend W. E. Miller. They did not get the camp funds, but were successful in stealing a $5 bill and a watch from the Reverend M. L. Stewart of Weatherby, Pa. The entire camp was aroused. A prayer was offered for the return of the burglars.

Girls Organize Unique Club.

REPUBLIC SPECIAL.

Dedham, Mass., Aug. 30.—Twenty-five society girls have banded together, vowing to have nothing to do with the young men, particularly a recently formed bachelors' club. They will accept no theater or dance invitations, candy, flowers or other favors. Miss Mary Brennan, sister of one of the "bachelors," is president.

MR. SPRAGUE SAYS

Apple Dumplings will be on sale Monday at Delicatessen Lunch Rooms.

DUBLIN HORSE SHOW DREW GREAT CROWDS

Fete Was Not an Unqualified Success, However, Owing to Absence of Vice Regal Party.

WEATHER WAS DELIGHTFUL.

Rank and Fashion of Europe and America Gathered at Ballsbridge—Smart Toilets Without Number.

SPECIAL BY CABLE TO THE NEW YORK HERALD AND THE ST. LOUIS REPUBLIC.

London, Aug. 30.—(Copyright, 1902.)—This has been Dublin's week. Once more the dear, dirty town is en fete from the annually celebrated horse show, which brings people from all parts of the Continent and America. The Herald-Republic correspondent, who has been over there for a week, says:

I have been to a good many horse shows, but never have I seen Dublin so full. Sackville street, Dublin's fashionable thoroughfare, was all crowded. It was a matter of difficulty for the Irish jaunting cars to make any progress. The weather, too, has been on its very good behavior, not quite free from rain, but very near it, which is most fortunate, considering what the weather has been like all through this miserable apology for a summer.

Notwithstanding all, Dublin has not been either pleased or happy, strongly resenting being left without a vice-regal party for its great week. What a thousand pities it was that Lord and Lady Dudley couldn't manage to be there, not only to occupy in state the vice-regal pavilion at the Leopardstown races, but also to appear in the show ring, as previous viceroys and vicereines have done.

Shopkeepers Furious.

It has been the chief topic of conversation all week. There was the pretty white pavilion at Leopardstown, shut up and unoccupied, a most depressing sight for the thousands present. Had the Duke and Duchess of Connaught been there on the opening day, it would have helped to lighten up matters a bit, but their highnesses were not there, much to the disappointment of everybody.

The shopkeepers are furious at the muddle that was made over everything. Many say that Lord and Lady Dudley will take a long time getting over the public resentment. Many ask why did not Lord Cadogan wait for the horse show? But other, wiser, people shake their heads and point out that Lord Cadogan had resigned two days after the coronation honors appeared.

His name, contrary to all expectations, did not figure among them, whereat people did wonder, for it is thought in Ireland, as elsewhere, that if ever a man deserved honors Earl Cadogan did. He filled a very difficult position for several years and spent his own money with both hands all the time. Now he has retired to private life for good. Up to the present there is no sign of the much-spoken-of Dukedom being offered to him.

Rank and Fashion at Horse Show.

The horse show itself was favored with delightful weather, which took people by surprise, considering what had been experienced for so long. Consequently, there was an enormous gathering of rank and fashion at Ballsbridge.

I have been at several previous shows there, but do not remember ever seeing so many smart and well-dressed people. All the women were wearing their prettiest summer finery, and the whole effect was most charming.

In the vice regal stand was seen Mr. Sedden, the Colonial Premier, conversing with Mr. George Windham, who was pointing out all the attractions of the place. Near by was Lady Grosvenor in a toilette of palest gray, with green leaves in her black hat and wearing beautiful diamonds and pearl earrings.

Lady Iveagh, who was with her husband, was dressed entirely in pale blue, with a white feather boa and blue hat trimmed with black osprey feathers. With her also was Lady Rossmore, one of the prettiest women present. Just behind them sat Lady Mayo, all in black, for she is still mourning the death of her sister.

Some Charming Toilets.

Another interesting group consisted of Lady Powerscourt and her daughters, with pretty Lady Eva Forbes, who was in white, with a rose pink tulle toque. Lady Ardilaun, who is very popular in Ireland, looked quite charming in a biscuit-colored dress, veiled in black lace. She wore a black hat and round her neck several rows of large pearls. Next came Lady Dartney, in a silver gray voile costume, much tucked, with touches of pale lime green at the throat and wrists.

From the Chief Secretary's lodge came Lord and Lady Chesham, the latter in dove-colored gray, with a toque to match, trimmed with pearls and silver. Lady Mollie Grosvenor, daughter of Catherine, Duchess of Westminster, who made her debut this year, was very much admired in pale blue cashmere, with black toque and boa.

Among the others in the host of representatives of English and Irish society, were Lord Dungarven, Lady Fingall, in black grenadine, with a rose trimmed straw toque; Lady Limerick, whose splendid emerald green feathers on her large black hat were most effective; Lady Wellscourt, Mrs. Rochfort-Boyd, Lady Mary Howard and Lady Holmpatrick.

GAVE UP HIS INDIAN STORIES.

Editor in New Oklahoma Town Felt Obliged to Explain.

REPUBLIC SPECIAL.

Macon, Mo., Aug. 30.—When Edgar S. Bronson, editor of the Thomas Tribune of Thomas, Custer County, Ok., was in Macon recently securing subscriptions for his contemplated paper, he told his friends that he intended to print a number of good Indian stories the first week.

The paper has been issued nearly two weeks now, and not an Indian story has appeared. His friends wondered at his breach of faith until they received a copy of the Wednesday edition, when all was made clear. In that number, Mr. Bronson says:

"Little Chief and Brave Bear with a hundred Cheyenne bucks, squaws and pappooses have arrived and pitched their tepees around the Tribune office.

"Most of the bucks are wearing tomahawks and sinister expressions. It is said that among them is an unregenerate son of the forest and plains that can read print.

"Under the circumstances, the publication of our carefully prepared Indian stories has been temporarily postponed."

MARRIED IN SPITE OF WOUNDS.

Shooting of Pennsylvania Couple Did Not Delay Wedding.

REPUBLIC SPECIAL.

Numedia, Pa., Aug. 30.—The shooting of Emma Billman and Kimber Doodly by Alexander Wardrop, who mistook them for horse thieves and peppered them with birdshot, did not delay their marriage. None of their wounds were serious.

Picnic and Outing.

The 1903 Amusement Company will give its first annual picnic at West End Heights on Monday. A programme of music and vaudeville will be the feature of the outing. The Arrangement Committee consists of Fred Geldmacher, John Lyons, Al Smith, Frank Smith, Herman Abner, Guy Borerson, Edward Zimmer and Ernest Westfall.

Sixty Years' Imprisonment.

REPUBLIC SPECIAL.

Ventura, Cal., Aug. 30.—Jose More, alias Jose Morse, has been sentenced to San Quentin for sixty years by Judge Williams. Morse pleaded guilty to killing Castila Ochoa.

Dental Society Meeting.

The Fraternal Dental Society will hold its first meeting after the summer vacation Monday evening at Doctor Dunham's office, Fourteenth and Olive streets, at 8 o'clock. Papers by Doctors Lark and Parrish.

Euchre and Lawn Party.

St. Margaret's Parish will give a lawn party next Wednesday evening on the lawn, corner of Flora boulevard and Vandeventer avenue.

Progressive Euchre.

The General Madison Miller Corps will give a progressive euchre at their hall in the Burlington building, Tuesday afternoon.

SAVED FROM SURGERY.

A Beautiful Woman Escapes the Surgeon's Knife by the Faithful Use of Pe-ru-na.

Miss Laura Doty, 30 Columbia street, East, Detroit, Mich., writes:

"Peruna saved me from an operation last spring, after I had suffered for seventeen months with severe pains in the bowels. The doctors claimed that nothing but an operation would help me. I heard of the wonderful powers of Peruna and decided to give it a trial, and to my great joy I found that the pain decreased from week to week until nine bottles were used, then the pain totally disappeared, leaving my general health much better. I now have great faith in Peruna."

MISS LAURA DOTY.

Mrs. Florence Aitkins, 522 Forsythe street, Toledo, O., writes: "I am to-day cured of that dreadful disease I wrote to you about when I asked your advice. I at once began taking Peruna and Manalin and have just finished the fifth bottle. It has cured me of leucorrhoea. I had the trouble for nine months and had given up hope of ever being strong again. I cannot tell how happy I feel, but you will know. I never heard of such medicine. It is the only medicine on earth. I will always keep Peruna in my house.

"I cannot find anything to talk about from morning till night but Peruna. I was a sick woman when I first wrote you. I have a bright, clear color now, and I am altogether a well woman.

"I think leucorrhoea is the worst of female diseases, for I suffered all sorts of pains. I thought at first that I had ulceration of the womb, and Peruna has cured me. I am now a sound woman.

"Peruna is the best friend I ever had on this earth—it must be praised—it cured me." MRS. FLORENCE AITKINS.

Pelvic Catarrh.

Catarrh is a very frequent cause of that class of diseases popularly known as female weakness. Catarrh of the pelvic organs produces such a variety of disagreeable and irritating symptoms that many people—in fact, the majority of people—have no idea that they are caused by catarrh.

Catarrhal Weakness.

A great proportion of women have some catarrhal weakness which has been called by the various doctors she has consulted, by as many different names. These women have been treated and have taken medicines with no relief, simply because the medicines are not adapted to catarrh. It is through a mistaken notion as to the real nature of the diseases that these medicines have been recommended to them.

Dr. Hartman's Free Advice.

If all women who are suffering with any form of female weakness would write to Dr. Hartman, Columbus, O., and give him a complete description of their symptoms and the peculiarity of their troubles, he will immediately reply with complete directions for treatment, free of charge.

"Health and Beauty," a book written especially for women, sent free by Dr. Hartman, President of The Hartman Sanitarium, Columbus, O.

If you do not derive prompt and satisfactory results from the use of Peruna, write at once to Dr. Hartman, giving a full statement of your case, and he will be pleased to give you his valuable advice gratis.

Address Dr. Hartman, President of The Hartman Sanitarium, Columbus, O.

BRITISH WOMEN IN CHRISTIAN SCIENCE

Ladies Maitland and Ashbourne Are Converts to Mrs. Eddy's Teachings.

REPUBLIC SPECIAL.

London, Aug. 30.—Christian Science is almost duplicating in the United Kingdom the success in gaining converts which it has had in the United States. The well-to-do, including many in the nobility, have taken up the new cult.

Among the most recent converts are Lady Ashbourne, wife of the Lord Chancellor of Ireland, and Lady Maitland. Lady Ashbourne has caused a stir by personally addressing meetings in Dublin.

LADY MAITLAND.

DE LUSSAN SEEN IN CHEAP OPERA

Experiment at Covent Garden, London, Likely to Prove a Financial Success.

London, Aug. 30.—Mlle. Zelie De Lussan and another American opera singer, Miss Anna Nickisch, scored successes in "Carmen" at Covent Garden.

The occasion was the opening of a season of opera at popular prices. The entertainment is likely to prove profitable.

Mlle. De Lussan had the title role and Miss Nickisch made her debut as Michaela.

ZELIE DE LUSSAN.

The Carpathian Cure

FOR RUNNING SORES, ECZEMA

And all Skin Diseases. Treatment taken at home or at our office. WE GUARANTEE A PERMANENT CURE, no matter how long you have been afflicted. NO CURE, NO PAY. Send for booklet. Consultation free.

CARPATHIAN MEDICINE COMPANY,

King's Highway and Delmar Boulevard.

Office Hours: 9 a. m. to 5 p. m., 7 to 9 p. m. daily; Sunday, 10 a. m. to 5 p. m.

READ TESTIMONIAL. TO THE AFFLICTED:

For one year I have suffered agonies with eczema in its most aggravated and severe form. I had sores all over my body and the itching was so terrible that I could not rest night or day.

I consulted doctors, I tried remedies, I did everything that I ever heard of or could think of in my efforts to get cured or to find relief, but nothing did me any good. At last, after I had tried everything and had about given up in despair, I saw a new cure advertised in the papers. It was THE CARPATHIAN CURE for blood and skin diseases. I took the treatment and in a short time began to improve. I continued taking it and now I consider myself cured.

The itching has stopped, the sores have healed, my appetite has returned and I am happy again. I consider the CARPATHIAN TREATMENT a Godsend to humanity, and it gives me pleasure to say all I can in its praise.

MRS. FRED W. SCHULTZ, 1415 Bremen ave., city.

Sworn to and subscribed before me this 16th day of August, 1902. P. H. AYLETT, Notary Public in and for the city of St. Louis, Mo. My term expires Nov. 15, 1903.