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If you continue to spend all that you earn, what will your financial position be when you are fifty? Build a prosperous future by saving regularly while you are young. The advancing years are viewed complacently by the man who has a comfortable sum in a Savings Account.

103

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I have just placed on the shelves a full line of Tinware, Nickelware and Agateware for domestic use. Call on me and get your supplies.

Eavetroughing, Stovepipes and Stove Furnishings.

Repairing of all kinds promptly attended to.

Pipefitting, including pump work.

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CHRISTOE BLOCK

FLESHERTON ONTARIO.

We wish to take this opportunity of thanking our many customers for their patronage during the past year and to wish you all a very Prosperous and Happy New Year.

F. G. KARSTEDT,

Flesherton, - Ontario

FLESHERTON BAKERY

A HAPPY NEW YEAR TO ALL

To our old friends, loyal and true, and to those whose friendship we try to deserve, we wish unmeasured happiness and good fortune through the coming year.

FRED PINDER, Flesherton

CHOOSING LUBRICANTS

Practical Advice Regarding Use of Machine Oils.

They Should Possess the Qualities of Adhesion and Cohesion—Mineral, Vegetable and Fish Oils All In Use—Planting Potatoes for Seed.

(Contributed by Ontario Department of Agriculture, Toronto.)

WHILE possibly every care and attention is given to the mechanism of farm machinery, few, if any, give consideration to the quality of the lubricants used.

The efficiency of any power is seriously affected by poor or improper lubrication of surfaces in frictional contact, indeed, it is estimated at about 50 per cent. of the available amount of energy in useful work.

The object of lubrication is not only to reduce friction, but also to carry away whatever excess of heat may be generated, for a certain amount of work will produce a given quantity of heat, but the carrying away of the heat is only an incidental condition, for heating of the bearing should not arise.

Oils for lubricating purposes should possess two qualities—that of cohesion and adhesion. Their cohesive properties lie in the character of their molecules to cling to each other, and their adhesive quality to stick to anything else. The union of these two properties make up what is known as viscosity, that is the body of the lubricant. This in a greater degree than any other factor determines the lubricating value of the oils. While viscosity of an oil determines its value as a lubricant, fluidity indicates its adaptability to any one particular machine. It is because of the struggle between viscosity and fluidity that the same oil will not do for the heavy engine shaft, and for light weight machinery. Each requires an oil with just sufficient "body" to carry the load without being squeezed out of the bearing. Beyond this condition the more fluid and easier moving the oil the better.

A thick lubricating film of good resisting body is needed for the line shaft of an ocean liner, but a drop of the same oil would put a watch out of commission.

Practically all the lubricants now in use are of the mineral oil foundation treated to free them from acid, and to improve their suitability for special purposes. Sperm oil is specially good for high speed light machinery: for heavy bearings castor oil, but both are expensive. For great pressure at slow speed lard, tallow, and other solid lubricants are suitable. If pressure is great, and speed high, castor, sperm, and heavy mineral oils are used. For low pressure at high speed, olive, sperm, rape and refined petroleum give satisfaction.

Vegetable and fish oils are drying oils, that is, they oxidize rapidly, causing gumming or clogging of the bearings to which they are applied. A mineral oil does not oxidize, neither does an animal oil. But mineral oils have a low flash point: that is, they fire at a low temperature. Animal oils develop fatty acids; these corrode and pit the metal they are used to lubricate.

Adulterants of various kinds are added to oils and greases to give them "body." Gum, soap, lime, resin, tar, soda and free acids all have their own distinct purpose to serve. Simple tests may be applied to lubricants for quality and viscosity. To test for acid saturate a bit of cotton waste with the suspected oil, and lay it open upon the surface of polished steel or brass for twenty-four hours. If steel shows even a slight corrosion or, if the brass turns green, free acid is present. To test for gummy adulterants place a drop of oil upon a piece of glass inclined at such an angle as to permit it to flow gently down. If any gum, resins or other viscosity producing elements are present, they will be apparent by the color of the oil streak, as the adulterants deposit themselves upon the glass in the form of sediment.

A good quality of lubricant will not break down, when rubbed between the finger tips, as quickly, as a poor one.

It would be economy in three ways at least to use two different kinds of oil; economy of power, of machine wear, and of oil, and in addition there would be greater efficiency.—Jno. Evans, O. A. College, Guelph.

Planting Potatoes for Seed.

This refers entirely to the production of seed potatoes; not those intended for human consumption. The growing of seed potatoes is better divided into two sections, the early and the late. For growing early potatoes of the Irish Cobbler variety the seed should be selected true to type and free as possible from any of the various diseases which affect the potato plant or tuber. These should be from 8 to 12 ounces in weight and cut up into pieces 2 ounces in weight with two eyes to the piece. They are planted about the 10th of June and are given every possible cultivation with the soil in a state of high fertility; better having been clover sod well fertilized with barnyard manure to which has been added a considerable quantity of commercial fertilizer, about 800 lbs. per acre. Thorough spraying to control leaf diseases and the Colorado Beetle should be given throughout the season. For the late seed the Green Mountain or Rural New Yorker is used. The planting is generally done about June 1st to June 5th under similar conditions to the former. In all cases it is necessary to select a soil that does not dry out during the summer time, as potatoes for seed should not be subjected to a check at any time during their growing period.

An abundance of water is absolutely essential for thrift.

THE

Flesherton Advance

An independent newspaper published every Thursday at the office, Collingwood Street, Flesherton. Subscription price $1 50 per annum when paid in advance; $2.00 when not so paid. $2.00 to United States. Advertising rates on application. Circulation over 1100 weekly.

W. H. THURSTON, EDITOR

Frizzell--Latimer

A quiet wedding took place at the home of the brides parents, Eugenia, at high noon on Wednesday, Dec. 29, when Clara, eldest daughter of Mr. and Mrs. J. Latimer was united in marriage to William John Frizzell of Bognor, Ont. the ceremony being conducted by Rev. F. G. Fowler. The bride wore a gown of ivory Duchesse satin with georgette and bead trimming and a veil caught with orange blossoms. She carried a bouquet of roses. The bridal party entered the parlor to the strains of the wedding march played by the bride' sister, Pearl. The gifts to the bride were numerous and costly The groom's gift to the bride was a pendant set with pearls and to the pianist a pendant. After the wedding the happy couple left for their honeymoon to Toronto and Alliston amid showers of confetti, the bride wearing a gown of navy blue serge and fur coat with hudson seal trimmings and hat to match On their return they will live on their farm at Bognor, Ont.

Municipal Elections

GLENELG

This year's Council was all re-elected as follows:

Reeve, W. Weir; Councillors, J. J. Black, Malcolm Black, Thomas Turnbull and Albert Livingstone.

OSPREY

For Reeve—Taylor

For Deputy Reeve—Ross

For Councillors—J. Poole, J. McKenzie, W. Edwards.

MARKDALE

Reeve—A. Jackson by acclamation.

Councillors—A. McEachnie, F T Hill, Dr. McArthur, B H Walden.

PROTON

Reeve—Geo. Wright.

Councillors—T. Robinson, Jas. Fraser, Archie Ferguson and W. Jack.

DUNDALK

Reeve—Geo. Stokes.

Councillors—G Wilson, A. McDonald, S. Simmons, H Moody.

FEVERSHAM

He'd Over Last Week

Henry Buckingham, wife and two children of Swift Current, Sask., are visiting friends in this part at present,

Emerson Osborne of Toronto spent the holiday with his brother Harold.

Our teachers, Miss Joley, and Mr Morris, are spending the holidays at their respective homes in Meaford and Cobourg.

Mr and Mrs H Alexander spent Xmas at Port McNicoll with their daughter, Mrs Will Colquett.

Allan McLean spent the holiday with friends in Toronto.

Mr and Mrs Will Heitman spent Christmas with friends at McIntyre.

Wm Hawton of Cellingwood visited friends in this vicinity recently.

Term Report Flesherton H. S.

Standing—1, 75 per cent. and over, honours, 2, 60 to 74 per cent., clear pass. 3, 40 to 59 per cent., pass in the subject.

FORM 2

Reading—1 G Akins and M Whittaker equal, M Caswell, H McLeod and P McMaster and M Parslow and R Stevens and E Wilson equal, I Lever and M Muir and M Nuhn exual, D Colgan and E Oliver equal, A Norris, E Ferris and G Lever and I Hincks and A Little and J White and S Acheson equal, I McLachlan and M McLachlan equal, J McLeod.

History—1 M Whittaker, M Caswell, M McLachlan, I McLachlan, 2 G Akins and P McMaster equal, A Little, R Stevens, M Muir, E Oliver, J McLeod, 3 J White, A Norris, E Ferris, M Parslow and E Wilson and M Nuhn equal, S Acheson, G Lever, H McLeod.

Arithmetic—1 S Acheson, E Wilson, G Lever, D Colgan, 2 M Nuhn, M Whittaker E Ferris, M Parslow, P McMaster, I McLachlan, 3 R Stevens, J McLeod, M Caswell, E Oliver, I Hincks and M Muir equal, McLachlan, A Stephen, A Little, I Lever and H McLeod equal.

Algebra and Geometry—2 H McLeod, J McLeod, E Oliver, J White, M Caswell and I McLachlan equal, E Ferris, S Acheson, M McLachlan, 3 G Lever, M Nuhn, M Parslow, M Muir, G Akins, M Whittaker, R Stevens, P McMaster, I Lever, I Hincks.

Spelling—1 I Lever, R Stevens, M McLachlan, I Hincks and H McLeod and A Norris and M Parslow equal, P McMaster, E Ferris, M Muir, S Acheson and G Akins equal, E Oliver, 2 M Nuhn and M Whittaker equal, M Caswell, D Colgan, E Wilson, 1 McLachlan, G Lever and I Little and J White equal, 3 J McLeod.

Science—2 J White, E Wilson, G Lever, M Muir, M Nuhn, 3 G Akins and D Colgan equal, M McLachlan, J McLeod, E Ferris, H McLeod, R Stevens, P McMaster, I Hincks, S Acheson and I Lever equal, A Little.

Grammar—M McLachlan, H McLeod, G Lever, E Oliver and E Wilson equal, S Acheson and M Parslow equal, E Ferris, J McLeod, M Whittaker and M Muir equal, M Caswell and R Stevens equal, M Nuhn and J White equal, 2 I McLachlan, A Little, D Colgan and G Akins equal, P McMaster, A Norris, I Lever, 3 I Hincks.

Art—1 G Lever, 2 E Ferris, P McMaster and E Wilson equal, M McLachlan, S Acheson and R Stevens equal, M Caswell, I Hincks and M Muir equal, 3 H McLeod, M Parslow, I McLachlan, M Nuhn, J McLeod and E Oliver equal, I Lever and M Whittaker equal, A Little, J White, D Colgan and A Norris equal,

Latin—1 M McLachlan, 2 E Ferris. R Stevens, J White, H McLeod, I McLachlan, M Whittaker, J McLeod, 3 M Muir, E Oliver and J Dow equal, I Hincks, P McMaster, G Akins, S Acheson.

French—1 E Ferris, I McLachlan, M Muir and J White equal, S Acheson, M Whittaker, H McLeod and R Stevens equal, I Hincks, 2 M Parslow, P McMaster, J McLeod, E Oliver, 3 E Wilson, G Akins, M Nuhn.

Geography—1 M Whittaker, M Muir and M Caswell equal, I McLachlan, M McLachlan and E Wilson equal, M Parslow, J White, S Acheson, 2 G Akins and E Ferris and G Lever and E Oliver and P McMaster and R Stevens equal, A Little, I Lever and J McLeod equal, M Nuhn, H McLeod, I Hincks, D Colgan.

Writing—1 M Nuhn, H McLeod, 2 M Caswell, M McLachlan, S Acheson and P McMaster and M Parslow equal, E Ferris and I Lever and A Little and I McLachlan equal, G Lever and R Stevens equal, M Muir and E Oliver and M Whittaker and E Wilson equal, J McLeod, A Norris, 3 J White, G Akins, D Colgan, I Hincks.

Summary—1 M McLachlan, 2 M Caswell, M Whittaker, I McLachlan, E Ferris, M Parslow, M Muir, J McLeod, R Stevens, G Lever, E Wilson, J White, S Acheson, E Oliver, H McLeod, P McMaster, M Nuhn, 3 G Akins, I Lever, I Hincks, A Little, D Colgan, A Norris.

—H. J. Haviland, Principal.

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Pure bred Shorthorn Bull of the Village Family for service on lot 10, con. 10, Osprey. Terms $2 50 for grades, $5 for pure breds.

Jnly 15 —Mort. Sayers, Prop.

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Business relations which have been conductive to confidence and the establishment of kind sentiments lead our thoughts to thoughts ot those with whom our success is interdependent. May 1921 Prove a banner year in all that affects your joy and prosperity.

D. McTAVISH & SON,

CHEVROLET DEALERS, - FLESHERTON, ONT.