

PARAFFIN WAX MADE INTO OIL FOR AIRPLANES

Chemists Claim Synthetic
Lubricant Better Than
Petroleum Product.

Paraffin wax, the substitute for chewing gum in the days of Daniel Boone and the landing of the Pilgrims, became an oil for airplane engines today at the meeting of American Chemical Society.

The man-made lubricating oil is claimed to be superior to the oil separated out of crude petroleum.

This accomplishment, which further allows the oil producer to fit his product to the market regardless of his crude oil supply, was reported to the society by F. W. Sullivan, V. Voorhees, A. W. Neely and R. V. Shankland, chemists of the Standard Oil Company of Indiana.

It costs more money to make at present. But it can be made in desired viscosity, it has the desired pale straw color, it does not oxidize easily, and it is more resistant to temperature changes than any known natural oil.

New Complex Mixtures

In developing the new lubricant, the chemists first determined through theory and experiment just what kind of hydrocarbons would make the best lubricating oil. Lubricating oils now in general use are complex mixtures of natural hydrocarbons left after gasoline and kerosene are distilled away and the asphaltic and waxy materials are separated.

They found that the oil they wanted had its molecules made up of approximately two hydrogen atoms for each carbon atom, and in its chemical formula the carbon atoms were arranged in a long chain. Having thus designed their new oil, the next job was to build it in accordance with the chemical blueprint.

In looking around for raw materials out of which to make the new oil, grain alcohol was considered and discarded. Finally paraffin wax, a petroleum by-product itself was selected. It must be put through an intricate process.

'Cracked' in Some Way

First it is "cracked" in much the same way that heavy fractions of crude petroleum are treated to yield gasoline sufficient to keep America's autos moving. This produces compounds known as olefines, which when combined by a process the chemist calls polymerization, yield the desired oils.

At present the new synthetic lubricant is being given special jobs such as the oiling of gear shifts, shock absorbers and airplane engines.

Other chemists reported improvements in the fuels used in autos. Lloyd Withrow and T. A. Boyd of the General Motors research laboratories, Detroit, told how they had attached a special photographic device to a gasoline engine in order to get a moving picture of how the explosions within the cylinder proceeded.

They discovered just what makes an engine knock when it is using the wrong kind of fuel or laboring up a hill. In both a nonknocking and knocking explosion the firing of the charge starts the same way. It starts at the spark plug and moves outward. The knock is produced when the fuel, after having started to burn relatively slowly, suddenly ignites, increasing the pressure and causing the knock.

Group meetings of the various divisions of chemistry in the society continued today with a breakfast session of divisional officers this morning in the Claypool.

Radio Dial Twisters

STATIONS OF THE NATIONAL BROADCASTING COMPANY

WEAF Network				WJZ Network			
KDKA	890	KTHS	1040	WCFB	970	WGN	720
CKGW	890	KVOO	1140	WKYC	970	WGT	720
KOA	890	KWK	1350	WDAF	610	WHS	720
KPBC	970	KW	1020	WEAF	660	WBO	1060
KSTP	1450	WBAL	1060	WENR	870	WBO	1060
		WFAA	800	WJR	750	WBYA	1110

STATIONS OF THE COLUMBIA BROADCASTING SYSTEM							
WABC	870	WRCB	550	WBBM	770	WOWO	1160
WABC	1100	WMAQ	570	WJAT	650	WFTW	940
WBT	1080	WJJD	1130	KRLD	1040	WFBM	1230
				WLAC	1470	CFBR	960

WEDNESDAY

—8:30 P. M.—
NBC (WEAF)—Spitalny's orchestra.
CBS—Pror's band.
WDAF (610)—Entertainers.
NBC (WEAF)—Bobby Jones, golf chat.
CBS—Literary Digest topics.
WJZ (730)—Harbor Lights.
WBYA (1110)—Corn Cob Pipe.
—7:15 P. M.—
NBC (WEAF)—RCA program with Bugs Baer.
CBS—Barbasol program.
—7:30 P. M.—
CBS—Musical cocktail.
NBC (WEAF)—Mobioli concert.
WJR (750)—Ivanhoe Salad.
NBC (WEAF)—Canadian Pa.
WLS (870)—Studio features.
WBSM (650)—Seiberling Singers.
—7:45 P. M.—
WMAQ (670)—Daily news feature.
—8 P. M.—
KDKA (890)—R. T. L. program.
CBS—Gold Medal program.
WBBM (770)—Bernie's orchestra.
WDAF (610)—Musical feature.
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WJZ (730)—Packard program.
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—8:30 P. M.—
CBS—Arabsque.
WBBM (770)—Bloom's concert.
WENR (870)—Organ; studio.
NBC (WEAF)—Palmolive concert.

WFBM (1230) Indianapolis

(Indianapolis Power and Light Company)

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5:45—Morton Downey (CBS).
6:15—James J. Corbett.
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6:45—Rollo and Dad (CBS).
7:15—Wendell Hall.
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7:45—General Mills Past Freight (CBS).
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9:00—Salesman Sam.
9:15—Savino's band (CBS).
9:30—The Columbian.
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10:00—Atop the Indiana roof.
10:15—Louise Lowe's orchestra.
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4:30—Pied Piper.
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8:45—Quartet dreamers.
9:00—Harry Bason's program.
9:15—Shovels orchestra.
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9:45—Radio cowboys.
10:00—Sign off.

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4:30—Words and music.
4:45—Time announcement.
4:50—Old man sunshine.
4:55—Oran program.
5:00—Oran announcement.
5:05—Bradley Kincaid.
5:10—University of Cincinnati educational series.
5:20—Secrets.
5:30—Lowell Thomas (NBC).
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6:15—Bill Cook (NBC).
6:30—Smith Brothers program (NBC).
6:45—R. F. hour.
7:00—The Buddy boys.
7:15—Canova Coffee hour.
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7:45—Bob Newhall, sports stories.
8:00—Variety.
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8:30—Weather.
8:45—Night songs.
9:00—The Crowsley theater of the air.
9:15—Hotel Gibson orchestra.
9:30—Netherland Plaza orchestra.
9:45—Midnight—Castle Farm orchestra.
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