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 New Information  
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 2832/PL

WEMCO® Insulating Oil  
 Characteristics

Approved Brands of Suitable Oil  
 and Supplies

## WEMCO® Insulating Oils Types C, CI

**WEMCO insulating oil will be supplied with complete apparatus only.  
 It is not offered for sale by Westinghouse as a separate item.**

To assist customers and district offices in obtaining suitable oil, a list of approved brands and suppliers is listed below:

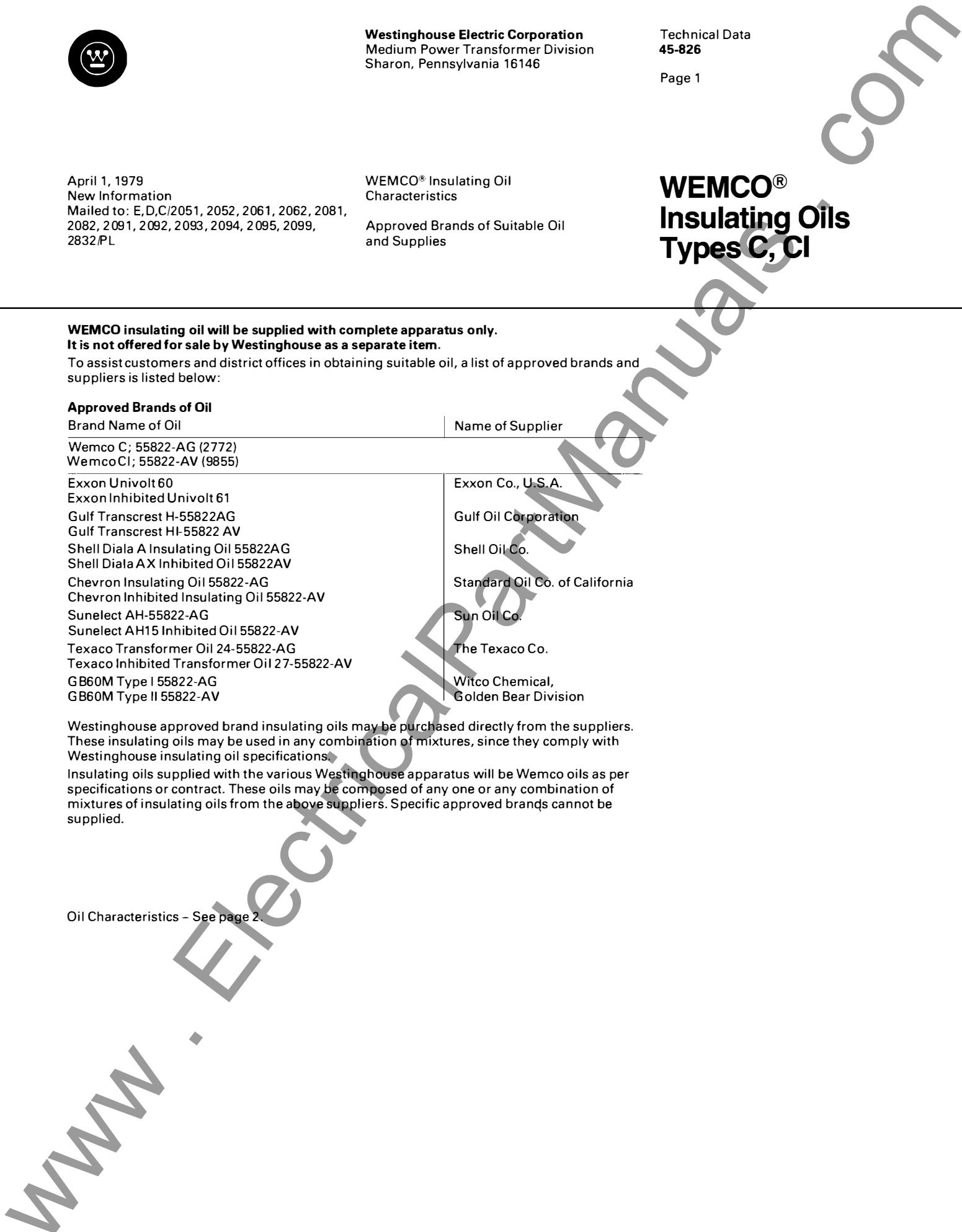
### Approved Brands of Oil

Brand Name of Oil	Name of Supplier
Wemco C; 55822-AG (2772)	
Wemco CI; 55822-AV (9855)	
Exxon Univolt 60	Exxon Co., U.S.A.
Exxon Inhibited Univolt 61	
Gulf Transcrest H-55822AG	Gulf Oil Corporation
Gulf Transcrest HI-55822 AV	
Shell Diala A Insulating Oil 55822AG	Shell Oil Co.
Shell Diala AX Inhibited Oil 55822AV	
Chevron Insulating Oil 55822-AG	Standard Oil Co. of California
Chevron Inhibited Insulating Oil 55822-AV	
Sunelect AH-55822-AG	Sun Oil Co.
Sunelect AH15 Inhibited Oil 55822-AV	
Texaco Transformer Oil 24-55822-AG	The Texaco Co.
Texaco Inhibited Transformer Oil 27-55822-AV	
GB60M Type I 55822-AG	Witco Chemical,
GB60M Type II 55822-AV	Golden Bear Division

Westinghouse approved brand insulating oils may be purchased directly from the suppliers. These insulating oils may be used in any combination of mixtures, since they comply with Westinghouse insulating oil specifications.

Insulating oils supplied with the various Westinghouse apparatus will be Wemco oils as per specifications or contract. These oils may be composed of any one or any combination of mixtures of insulating oils from the above suppliers. Specific approved brands cannot be supplied.

Oil Characteristics – See page 2.





**Oil Characteristics**

**General:** Wemco insulating oil is a refined mineral oil obtained from the fractional distillation of crude petroleum. It does not contain moisture, inorganic acids, alkalis, free sulfur or any other substances which will injuriously affect its electrical insulating properties. Cl oil contains a minimum of 0.15% D.B.P.C. inhibitor.

Reaction .....		Neutral
Neutralization number:		
(mg. KOH per gr. oil) (A.S.T.M. D-974) .....		0.03 max.
Inorganic chlorides or sulfates (A.S.T.M.D-878) .....		None
Free or combined corrosive sulfur		
(A.S.T.M.D-1275) .....		Non-corrosive
Flash point (A.S.T.M.D-92) .....		145°C (293°F) min.
Fire point (A.S.T.M.D-92) .....		160°C (320°F) min.
Demulsibility (A.S.T.M.D-1935) .....		.35 sec. max.
Pour point (A.S.T.M.D-97) .....		-45.6°C (-50°F) max.
Viscosity (A.S.T.M.D-445) (100°C) .....		.3 cSt max.
(A.S.T.M.D-445) 0°C .....		.76 cSt max.
Moisture content (A.S.T.M.1533) .....		.35 ppm max.
Specific gravity		
(A.S.T.M.D-1298) at 15.5°C (60°F) .....		0.910 (26.07 API) max.
Interfacial tension (A.S.T.M.D-971) dynes/cm .....		.40 min.
Power factor 60 Hz 25°C (77°F) (A.S.T.M.D-924) .....		.005% max.
Power factor 60 Hz 100°C (212°F) (A.S.T.M.D-924) .....		.030% max.
Dielectric strength (A.S.T.M.D-877) .....		.30 kv min.
Dielectric strength (A.S.T.M.D-1816) 0.04" gap .....		28 kv min.
Dielectric constant .....		2.2
Precipitation number .....		zero
Specific heat .....		0.488 approx.
Coefficient of expansion at 0°C (32°F) .....		0.000725
100°C (212°F) .....		0.000755
Weight per gallon .....		7.5 pounds
Color (A.S.T.M.D-1500)	Wemco C	.5 max.
	Wemco Cl	.5 max.
Oxidation life (A.S.T.M.D-2440)	Wemco C	72 hr.
	acid no.	.5 max.
	sludge %	.15 max.
	164 hr.	
	acid no.	.6 max.
	sludge %	.3 max.
Oxidation life (A.S.T.M.D-2112)	Wemco Cl, minutes	195 min.