

Bob K. thought you might like a legible copy

TO: KATOLIGHT CORP.

**NORTHERN POWER
PRODUCTS, INC.**

2815 EAGANDALE BLVD., P.O. BOX 21-348, EAGAN, MN 55121
612/452-8900

(TELEFAX 612-452-8905)

ATTN: Mr. Mike Melvin

NO:

CC: (Sales Dept.)

DATE: OCTOBER 18, 1988

FROM: JACK KERN

PAGE: 1 OF 1

RE: Ford 460 Nat. Aspirated overhaul cycles:

Mike:

Per your request to operate your 55KW unit at 20KW for 70% of time, 45KW maximum for 30% of time in a continuous duty application, per Tom McPheeters, FPPO Engineering, you can expect a mean time before a first major overhaul of 4500 to 5000 hours. A second overhaul would fall between 3500 to 4000 hours, a third overhaul in the 3000 to 3500 hour range or a short or long block replacement at that time.

These time frames for overhauls are based on:

1. High quality LPG fuel and crankcase oil.
2. Excellent preventive maintenance (per published guidelines).
3. Operating conditions (load cycles) as outlined above.
4. No cooling system problems or overheating of the engines.
5. Clean atmospheric conditions.

Regards,

Jack



(IF THERE ARE ANY PROBLEMS IN TRANSMITTING OR RECEIVING, PLEASE CALL (612) 452-8900
AS SOON AS POSSIBLE)



Product MODIFICATION Bulletin

Dan

August '85 #194

August 16, 1985

To: Original Equipment Manufacturers
Ford Power Product Distributors
PPO Field Sales and Service
PPO Product Engineering

Subject: Changes to Oil Pan Drain Plug on Ford Gasoline Engines

Effective immediately, a running change has been implemented to replace the old D2AE-6730-AA ($\frac{1}{2}$ -20 UNF thread) oil pan drain plug with a metric drain plug E5AE-6730-AA (M14 x 1.5 mm thread) on the following engines:

- . LSG-861 (370 CID) - All industrial and vehicle.
- . LSG-870 (429 CID) - All industrial and vehicle.
- . LSG-875 (460 CID) - All industrial, marine and vehicle.

A new drain plug seal E5AE-6734-AA was released concurrently to replace the old C20E-6734-A seal on production units. The new metric drain plug is to be serviced with a E0EE-6734-AA (E0FZ-6734-A) seal.

The new drain plug can be identified by the word "METRIC" on the head of the plug. In addition, there is a letter "D" depressed in the head of the plug directly opposite the word "METRIC". This letter is for vendor identification purposes.

The change to the metric drain plug was initially intended to commence on engines starting with the 1986 model year changeover. However, this change was pulled ahead into the second quarter of 1985 on the engines noted above.

In addition, the new drain plug will be installed on the following engines in approximately eight (8) months:

- . CSG-649 (300 CID) - Vehicle only (excluding industrial and irrigation),
- . CSG-850 (302 CID) - All industrial, marine and vehicle.
- . WSG-858 (351W CID) - All industrial, marine and vehicle.

The LSG-423 and VSG-411 engines already use metric drain plugs.

If there are any questions regarding this bulletin, please contact Larry Wesner or Roger Werling, FPPO Application Engineering on (313) 323-7800/1.

C. F. Maddox

C. F. Maddox, Manager
Power Products Engineering



Marketing EngiNEWS

Industrial Engine Operations
Ford Parts and Service Division
3000 Schaefer Road
Dearborn, Michigan 48121

RECEIVED
DEC 10 1984
KATO LIGHT CORP

#920
December

#920
December 3, 1984

To: Original Equipment Manufacturers

Subject: FPS340 Claim Filing

It has been brought to our attention by both IEO customers and Ford Parts & Service Division personnel that some confusion may exist regarding FPS340 claim filing as a result of the DIEP/PRC integration. In order to clarify filing procedures we have reviewed situations for which claims are most frequently misfiled. These situations are indicated below:

FPS340 claims for shipped in error parts are claims for parts that are picked incorrectly at FPSD, i.e. the parts received are not the parts ordered and identified on the shipping/billing documents.

Merchandise ordered in error by an OEM customer must be submitted directly to IEO for review and prior approval. Any OEM stock approved for return will be handled on a customer goodwill basis.

FPS340 claims filed for duplicate orders require complete information on both the original and the duplicated orders. Supporting documentation (shipper/packing slip and invoice) for both shipments is required to process a claim.

Form FPS7088 (Claim Brief for Service Parts Loss or Damage) is not used by IEO customers, neither FPPDs nor OEMs. Claims for receipt of damaged material should be submitted on a FPS340 claim to the shipping location. The claims should be accompanied by a carrier inspection report.

Extra care must be taken when submitting claims for new defective service parts. A claim for new (defective) merchandise which has not been placed in service or modified in any way should be submitted on a FPS340 claim. However, material which has been placed in service must be submitted on a Form 194-1863 Service Adjustment Claim (warranty claim).

COMMUNICATION

NOV 1 1988

In order to ensure timely processing of FPS340 claims and resulting credit, it is imperative that the proper documentation and return procedures be strictly followed. Three key elements that will avoid delays in receiving credit are:

All FPS340 claims submitted must have complete supporting documentation in order to qualify for consideration. The supporting documentation should consist of the billing invoice, the shipper/packing slip, and the carrier inspection report, if applicable.

Ensure that the claim is mailed to the correct location and related material is shipped to the correct FPSD depot. This information is contained on both the shipper and the invoice. In no case should material be returned to IEO General Offices in Dearborn.

All fuel devices (carburetors, injection pumps, filters, etc.) must be drained of fuel prior to return.

Additional questions on these subjects may be directed to Ms. S. L. Hofmann at the IEO General Office (313/32-32174).

D. A. Kunka
Field Sales Manager



Marketing EngiNEWS

Industrial Engine Operations
Ford Parts and Service Division
3000 Schaefer Road
Dearborn, Michigan 48121

#920

December 3, 1984

To: Original Equipment Manufacturers

Subject: FPS340 Claim Filing

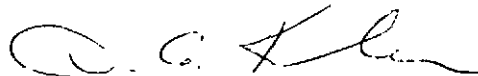
It has been brought to our attention by both IEO customers and Ford Parts & Service Division personnel that some confusion may exist regarding FPS340 claim filing as a result of the DIEP/PRC integration. In order to clarify filing procedures we have reviewed situations for which claims are most frequently misfiled. These situations are indicated below:

- . FPS340 claims for shipped in error parts are claims for parts that are picked incorrectly at FPSD, i.e. the parts received are not the parts ordered and identified on the shipping/billing documents.
- . Merchandise ordered in error by an OEM customer must be submitted directly to IEO for review and prior approval. Any OEM stock approved for return will be handled on a customer goodwill basis.
- . FPS340 claims filed for duplicate orders require complete information on both the original and the duplicated orders. Supporting documentation (shipper/packing slip and invoice) for both shipments is required to process a claim.
- . Form FPS7088 (Claim Brief for Service Parts Loss or Damage) is not used by IEO customers, neither FPPDs nor OEMs. Claims for receipt of damaged material should be submitted on a FPS340 claim to the shipping location. The claims should be accompanied by a carrier inspection report.
- . Extra care must be taken when submitting claims for new defective service parts. A claim for new (defective) merchandise which has not been placed in service or modified in any way should be submitted on a FPS340 claim. However, material which has been placed in service must be submitted on a Form 194-1863 Service Adjustment Claim (warranty claim).

In order to ensure timely processing of FPS340 claims and resulting credit, it is imperative that the proper documentation and return procedures be strictly followed. Three key elements that will avoid delays in receiving credit are:

- . All FPS340 claims submitted must have complete supporting documentation in order to qualify for consideration. The supporting documentation should consist of the billing invoice, the shipper/packing slip, and the carrier inspection report, if applicable.
- . Ensure that the claim is mailed to the correct location and related material is shipped to the correct FPSD depot. This information is contained on both the shipper and the invoice. In no case should material be returned to IEO General Offices in Dearborn.
- . All fuel devices (carburetors, injection pumps, filters, etc.) must be drained of fuel prior to return.

Additional questions on these subjects may be directed to Ms. S. L. Hofmann at the IEO General Office (313/32-32174).



D. A. Kunka
Field Sales Manager



Product MODIFICATION Bulletin

November, '84 #190

November 26, 1984

To: Original Equipment Manufacturers
Ford Power Product Distributors
IEO Field Sales and Service
IEO Product Engineering

Subject: New Oil Pan and Revised Oil Level Indicator Location for 5.0L (302 CID)
Marine Engines

Effective with 5.0L marine engines built during the third quarter of 1984, the oil level indicator and tube were moved from the right hand side of the oil pan to the left hand side in the cylinder block as shown on the attached sketch SK-12681.

The new oil pan part number is E3JE-6675-BA. Oil capacity remains six (6) quarts including filter. Engines shipped after the third quarter of 1984 will have the cylinder block mounted oil level indicator location. All affected ship loose groups have been updated to incorporate the new oil level indicator and tube for the new cylinder block location. The new part numbers are E3TE-6750-CA (E3TZ-6750-L) and E2TE-6784-AA (E2TZ-6754-A), respectively.

It is required to apply E1LY-1A109-A (290 Wick N' Lock loctite sealant) or equivalent to the oil level indicator tube joint at assembly. See attached sketch SK-12681 for assembly instructions. The tube must further be retained to the engine with a retention bracket, normally supplied by the customer.

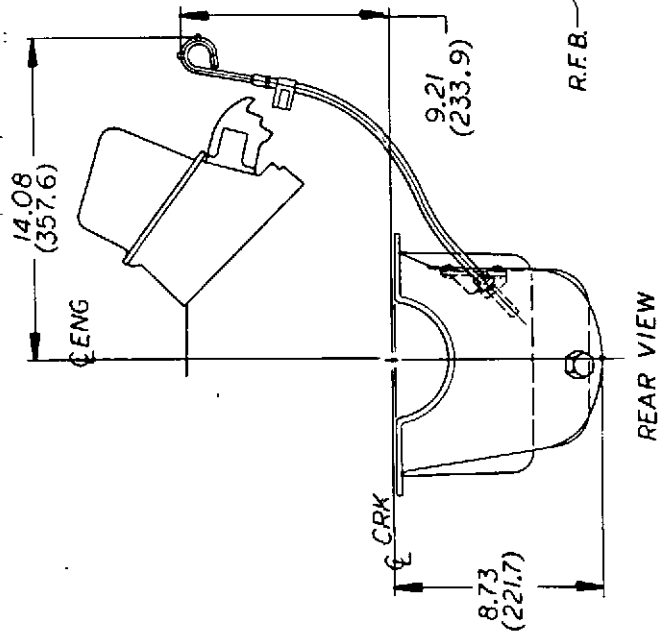
The oil level indicator DITE-6750-BA and tube D5TE-6754-CA will be retained to service the oil pan mounted locations.

If there are any questions regarding this bulletin please contact Larry Wesner, IEO Application Engineering on (313) 323-7800.

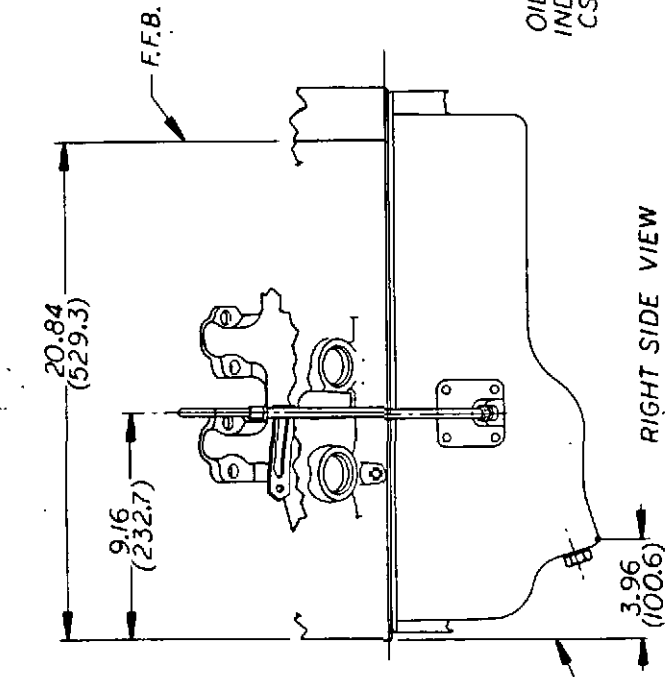
C. F. Maddox

C. F. Maddox, Manager
Product Engineering

Attachment
/cp

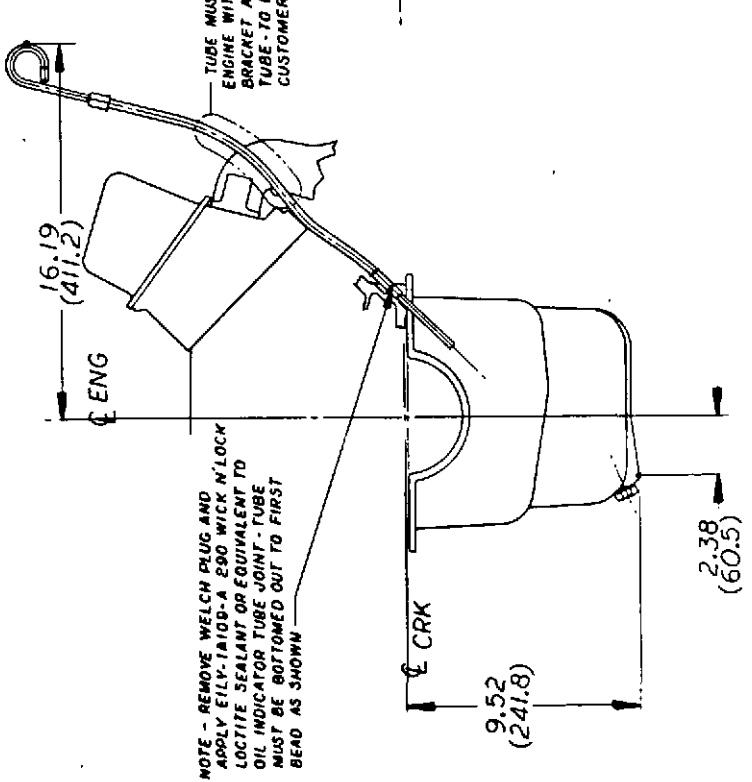


REAR VIEW



RIGHT SIDE VIEW

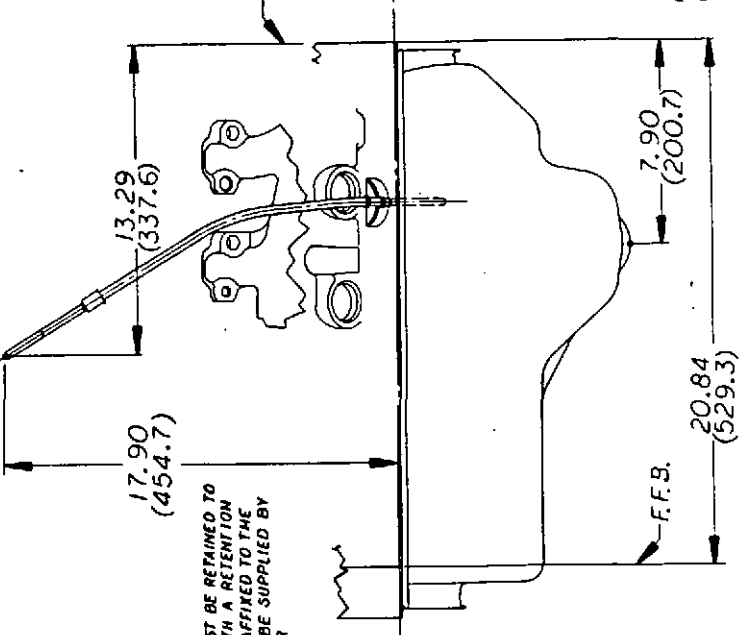
OLD
OIL PAN AND OIL LEVEL
INDICATOR LOCATION FOR
CSG-850 (302 c₁₀) MARINE



FRONT VIEW

NOTE - REMOVE WELCH PLUG AND APPLY EILY-1A109-A 280 WICK N' LOCK LOCOTITE SEALANT OR EQUIVALENT TO OIL INDICATOR TUBE JOINT - TUBE MUST BE BOTTOMED OUT TO FIRST BEAD AS SHOWN

TUBE MUST BE RETAINED TO ENGINE WITH A RETENTION BRACKET AFFIXED TO THE TUBE - TO BE SUPPLIED BY CUSTOMER



LEFT SIDE VIEW

NEW
OIL PAN AND OIL LEVEL
INDICATOR LOCATION FOR
CSG-850 (302 c₁₀) MARINE



Parts and Service NEWS

Industrial Engine Operations
3000 Schaefer-Road
P.O. Box 6011
Dearborn, Michigan 48121

RECEIVED

MAY 2 1985

KATO LIGHT CORP

April 26, 1985
#16-1985

To: Original Equipment Manufacturers

Subject: Warranty and Service Support Outside the United States
or Canada

Recently we have received a number of inquiries regarding warranty and service support for OEM's selling their products outside the United States or Canada. To assist all OEM's, we are supplying an updated copy of our Ford Affiliate Listing (attached).

A key factor in achieving service support outside the United States is to supply advanced information on international shipments to the local Ford Affiliate. This can be done by the United States based OEM sending advance shipping information to the address shown on the attached list or by the OEM supplying this office with advance shipping information. Also, the OEM may have a very active sales office in the overseas area and they may wish to establish a direct contact with the Ford Affiliate. We believe that this may be the most advantageous method as the OEM and local Ford representatives can review warranty administration procedures in advance, as well as the specific duration of the warranty coverage in that particular affiliates territory.

Questions on overseas warranty and service support may be directed to Mr. D. E. Hofmann 32-27650.

T. L. Shelton, Manager
Parts and Service

Attachment

FORD AFFILIATE LISTING
EUROPE

NAME AND ADDRESS

COUNTRIES SUPERVISED

Ford Motor Company (Austria) KG
Furbergstrabe 51
A-5021 Salzburg Postfach 2, Austria
Mr. M. Kolmhofer, Service Manager

Austria

Ford Motor Company (Belgium) N.V.
Noorderlaan, 600
Postbus 37
2030 Antwerp, Belgium
(Street Address: Kanaaldok 200-204,
Antwerp)
Mr. A. Witte, Service Manager

Belgium, Luxembourg

Ford Motor Company A/S
Sluseholmen 1
DK-2450 Copenhagen S.V., Denmark
Mr. O. Nilsen, Service Manager

Denmark

Ford Motor Company, Ltd.
Laindon, Basildon
Essex SS15 6EE, England
Attn: Customer Relations Manager

England, Northern Ireland,
Scotland, Wales

(U.S. Products Only)
Ford Personal Import/Export, Ltd.
8 Balderton Street
London, W1Y 2BN, England
Mr. R. E. Sangster, Parts and
Service Manager (U.S. Products)

England, Northern Ireland,
Scotland, Wales

O/Y Ford A/B
P. O. Box 46
SF-00101 Helsinki 10, Finland
(Street Address: Henry Fordin Katu 6,
00150 Helsinki 15)
Mr. E. Huuskonen, Service Manager

Finland

Ford France S.A.
344, Avenue Napoleon Bonaparte
92506 Rueil-Malmaison Cedex
France
Mr. E. Benaim, Service Manager

France

Ford Werke A.G.
D-Z/VIK-43 Ottoplatz 2
D-5000 Koeln 21, West Germany
(Street Address: Ottoplatz 2, D-5000
Koeln-Deutz)
Dr. G. Badhauser, Service Manager
Mr. R. Boldt, Service Manager
(Imported Vehicles)

West Germany

EUROPE
(CONTINUED)

<u>NAME AND ADDRESS</u>	<u>COUNTRIES SUPERVISED</u>
Henry Ford and Son (Sales), Ltd. Marina, Cork, Ireland Mr. B. Murphy, Service Manager	Ireland
Ford Italiana S.p.A. Viale Pasteur 8/10 00144 Rome, Italy Mr. M. Leonardi, Service Manager	Italy, Trieste
Ford Nederland B.V. Postbus 795 1000 AT Amsterdam, Netherlands Mr. G. J. J. Numan, Service Manager	The Netherlands
Ford Motor Norge A/S N-1410 Kolbotn, Norway Mr. J. Meyer, Service Manager	Norway
Ford Lusitana Lisbon 2, Portugal (Mail & Stree Address: Rua Rosa Araujo, No. 2, 3rd Flr. 1500 Lisbon Portugal Mr. A. Fontes de Melo, Service Manager	Portugal
Ford Espana S.A. Paseo Castellana 135, 28016 Madrid, Spain Attn: Mr. John Sivan, Service Manager	Spain
Ford Motor Company A/B Fack Box 27 303 102 54 S. Stockholm 27, Sweden (Street Address: Tullvaksvagen 11, Stockholm) Mr. G. Johansson, Service Manager	Sweden
Ford Motor Company (Switzerland) S.A. Kurvenstrasse 35 8021 Zurich, Switzerland Mr. P. J. Watelet, Service Manager	Switzerland

EUROPE
(CONTINUED)

NAME AND ADDRESS

FORD DIRECT MARKET OPERATIONS
MID-EAST AND AFRICA REGION
TRAFFORD HOUSE
STATION WAY
BASILDON
ESSEX SS 16 5XX
ENGLAND

COUNTRIES SUPERVISED

Afghanistan, Bangladesh,
Cyprus, Greece, Iran, Israel,
Pakistan, Turkey

Bahrain, Iraq, Jordan,
Kuwait, Lebanon, Libya, Oman,
Qatar, Saudi Arabia, Syria,
United Arab Emirates, Yeman

Algeria, Andorra,
Ascension Island, Burundi,
Cape Verde Islands,
Cameroon, Canary Islands,
Dahomey, Gabon, Gambia,
Ghana, Gibraltar, Greenland,
Guinea, Guinea Bissau,
Iceland, Ivory Coast,
Liberia, Mali, Malta,
Mauritania, Morocco, Niger,
Nigeria, Principe Island,
Rwanda, St. Helena, Sao
Tome, Senegal, Sierra Leone,
Spanish North Africa, Togo,
Tunisia, Upper Volta

Angola, Central Africa
Republic, Chad, Congo,
Equatorial Guinea, Ethiopia,
Gabon, Kenya, Malagasy
Republic Malawi, Mauritius,
Mozambique, Reunion,
Seychelles, Somalia, Sudan,
Tanzania, Uganda, Zaire,
Zambia

Albania, Bulgaria,
Czechoslovakia, East
Germany, Hungary, Poland,
Rumania, U.S.S.R.,
Yugoslavia

AFRICA, ASIA, AUSTRALIA AND NEW ZEALAND

NAME AND ADDRESS

COUNTRIES SUPERVISED

Ford Sales Company of Australia, Ltd.
 Private Mail Bag 2
 Campbellfield P.O.
 Campbellfield 3061, Australia
 (Street Address: 1735 Sydney Road,
 Campbellfield)
 Mr. R. R. Knight, Owner Relations Manager
 Mr. K. A. Payne, P&A Opns. Mgr., NPD

Australia

Ford Products Company of Australia
 33 Albert Road
 Melbourne 3004
 Australia
 Mr. P. J. F. Morel, Product Specialist
 Mr. R. B. Whyman, Field Sales Manager

American Samoa, Brunei,
 Burma, Cambodia, Caroline
 Islands, Ceylon, China
 (Mainland), Colombo, Fiji,
 Guam, Hong Kong, India,
 Indonesia, Korea, Laos,
 Mariana Islands, Marshall
 Islands, Nepal, New
 Caledonia, New Guinea,
 New Hebrides, Norfolk Island,
 Saipan, Solomon Islands
 (Guadalcanal), Tahiti,
 Thailand, Tonga, Vietnam,
 Western Samoa, Philippines, (,
 Malaysia, Sabah, Sarawak,
 Singapore

Ford Motor Company (Egypt) SAE
 P. O. Bag Sibi Gaber - Alexandria
 Egypt
 (Street Address: Avenue Victor
 Emmanuel III, Alexandria)
 Mr. A. Salib, Service Manager

Egypt

Ford Motor Company (Japan), Ltd.
 Toranomom 37 Mori Building
 5-1, Toranomom 3-Chome
 Minato-ku, Tokyo 105, Japan
 Mr. K. Okiyama, Parts Dist. Mgr.
 Mr. S. Toba, Domestic Sales Operations Mgr.

Japan, Okinawa

Ford Motor Company of New Zealand, Ltd.
 P. O. Box 30-012
 Lower Hutt, New Zealand
 (Street Address: Seaview Road
 Lower Hutt)
 Mr. W. Booth, Customer Relations Manager

New Zealand, Cook Island

AFRICA, ASIA, AUSTRALIA AND NEW ZEALAND

NAME AND ADDRESS

COUNTRIES SUPERVISED

Ford Emerprise Company, Taiwan Ltd.
 Ford Lio Ho Motor Company, Ltd.
 P. O. Box 12
 Chung Li, Taiwan 320
 Taiwan
 Republic of China
 (Street Address: 705, Sec. 1,
 Chung Hwa Road, Chung Li)
 Mr. T. P. Wang, Vehicle/Parts Sales Mgr.

Republic of China (Taiwan)

Ford South Africa
 P. O. Box 788
 Port Elizabeth 6000
 South Africa
 (Street Address: 55 Albany Road
 Port Elizabeth 6001)
 Mr. V. E. Lansdell, Service Manager

Union of South Africa

Amin Holdings SDN, BHD
 Sub Lat 11, Jalan Paku 16/6
 Shoh Alam, Sclangor
 Top Floor, Block C
 Kompleks Pejabat Damansara
 Jalan Dungan, Damansara Heights
 Kuala Lumpur 23-04, Selangor
 Malaysia
 Mr. Joe Goh, General Sales and
 Marketing Manager
 Mr. Vincent Lake, P&S Manager

Malaysia

SOUTH AMERICA, CENTRAL AMERICA AND CARIBBEAN

<u>NAME AND ADDRESS</u>	<u>COUNTRIES SUPERVISED</u>
<p>Ford Motor Argentina S.A. Casilla de Correo 696 Correo Central Buenos Aires, Argentina (Street Address: Wenceslao Villafane No. 40, Buenos Aires 32/1) Mr. E. A. Bisso, Field Service Manager Mr. Marcelino E. Martin, Service Manager</p>	Argentina
<p>Ford Brazil S.A. Caixa Postal 5064 09720 - R. Ramos - SBC - S. Paulo Brazil (Street Address: Av. do Taboao, 899, Sao Bernardo do Campo Mr. R. C. Cardoso, Customer Relations Mgr. Mr. Fernando B. Pellegrine, Service & Technical Programs General Manager</p>	Brazil
<p>Ford Motor Company S.A. de C.V. (Mexico) Calz. de Guadalupe esq. Henry Ford Mexico, D.F., Mexico (Street Address: Reforma 333, Mexico 5) Mr. Manuel San Emeterio P., Service Manager</p>	Mexico
<p>Ford (Uruguay) S.A. Casilla de Correo 296 Montevideo, Uruguay (Street Address: Cuaro 3087, Montevideo) Mr. A. Cabrera, Parts and Service Manager Mr. Hector Silva, Supervisor Service</p>	Uruguay
<p>Ford Motor de Venezuela S.A. Apartado del Este 61131 Caracas, D.F., Venezuela (Street Address: Avda. Ppal. Colinas de Bello Monte, Edif. Oficentro Colinas, Piso #3, Colinas de Bello Monte, Caracas) Mr. Sidney Turkington, Service Manager</p>	Venezuela
<p>Ford Motor Company Ford Direct Market Opns P.O. Box 600 Wixom, Michigan 48096, U.S.A. (Street Address: 50000 Grand River Expressway, Wixom) Mr. R. M. Allen, Service Manager</p>	

SOUTH AMERICA, CENTRAL AMERICA AND CARIBBEAN.

NAME AND ADDRESS

COUNTRIES SUPERVISED

DISTRICT OFFICES

Ford Direct Market Opns.
Latin America Regional Office
4901 N.W. 17th Way
Ft. Lauderdale, FL 33309

Antigua, Bahamas, Barbados,
Bermuda, Cayman Islands,
Dominica, Dominican
Republic, Grenada,
Guadeloupe, Haiti, Jamaica,
Martinique, Miquelon,
Puerto Rico, St. Kitts,
St. Lucia, St. Martin,
St. Pierre, St. Vincent,
Tortola, Virgin Islands

Aruba, Belize, Bonaire,
Costa Rica, Curacao,
El Salvador, French Guiana,
Guatemala, Guyana, Honduras,
Nicaragua, Surinam, Trinidad

Colombia, Ecuador, Panama

Ford Motor Company, Chile
Casilla 54-D
Santiago, Chile
Mr. Marco A. Silva, Parts & Service Rep.

Bolivia, Chile, Paraguay,
Peru



ENGINEERING INFORMATION BULLETIN

June '87 #33

June 11, 1987

To: PPO Personnel
PPO Distributors Principal & Branches
OEM Purchasing Manager
OEM Chief Engineer

Subject: BSD Engine Oil Dye

Several inquiries have been received concerning the red color of the engine oil used in the BSD engines. Some customers have suspected that the engines were incorrectly filled with something other than the specified engine oil. The BSD engines, as they are shipped from the Basildon Engine Plant, have an initial fill oil tinted with a red dye for manufacturing purposes only. This initial fill oil has an API classification of SE, SF/CC, CD and is a 10W-30 grade oil. For recommended service refill engine oils, please consult your operators manual.

If there are any questions concerning this bulletin, please contact Tom McPheeters, PPO Engineering on (313) 323-7801.

C. F. Maddox
C. F. Maddox, Manager
PPO Product Engineering