

Mobil Jet Oils

Equipment Builder Reference Guide

Description

The following reference guide has been compiled from excerpts taken from the 64th edition of the Mobil Equipment Builder Book. The information was sorted wherever Mobil Jet Oils were referenced for builder applications.

If additional data is needed, please contact your assigned technical representative or the appropriate Help Desk.

■ ABB STAL AB

Finspang, Sweden

"POWER-PAK" STAND-BY UNITS

Gas generator bearings — "Avon"	Mobil Jet Oil II
Pratt & Whitney or Rolls-Royce	

■ ACEC

9000 Gent, Belgium

WORTHINGTON TURBO-JET¹

20 and 40 MW Generator	Mobil Jet Oil II
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¹ Out of production.

■ ROLLS ROYCE — ALLISON ENGINE COMPANY, INC.

Indianapolis, Indiana, United States
Formerly Allison Engine Company, Inc.;
Formerly Allison Turbine Division General Motors Corp.

ALLISON TURBINE ENGINE DRIVEN GAS COMPRESSOR AND ELECTRIC GENERATOR¹

Series 501-D13 and 501-D22
and 501-K, 570 KA, KC, KF
(Turbine and Reducer Drive), 601K
All parts

Mobil Jet Oil II,
Mobil Jet Oil 254

¹ The following engines have the following Allison Codes: D—Aircraft Engines, A—Generator Engines, C—Pumper Engines, F—Marine Engines, K—Industrial Engines, K-5 and K-13 Series are Natural Gas Engines. K-14 and K-15 Series are Liquid Fuel Engines. Mobil SHC 824 is approved for Industrial Natural Gas Fueled applications only.

■ BECKMAN INSTRUMENTS

Spinco
Palo Alto, CA, United States

CENTRIFUGES

Ultra Centrifuge Drive Assemblies	Reservoir	Mobil DTE 24, Mobil 1 Formula 5W-30, Mobil Jet Oil 254, Mobil SHC 626
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■ CENTRAX LIMITED

Gas Turbine Division
Newton Abbot, United Kingdom

GAS TURBINE DRIVEN GENERATING SETS

Centrax Models: 501; KB3; KB5;
KB7; 570; 571
Gas Turbine, Alternator and Gearbox

Mobil Jet Oil II

■ COMPAIR REAVELL LTD.

An Invensis Company
Ipswich, United Kingdom

RECIPROCATING AIR COOLED COMPRESSORS

Models: 5206A, 5208A, 5402
Crankcase & Cylinders Mobil Jet Oil II,
Mobil Rarus 427¹

¹ Restricted duties only — temperature limitations dependent upon model — refer to EB Department, MOCL.

■ COOPER CAMERON CORPORATION

Cooper Energy Services Division
Mount Vernon, OH, United States

COBERRA GAS TURBINES

Oil Inlet Temperature — Severe Duty

125°F (51.7°C) to 145°F (62.8°C) Mobil SHC 825
Fire Resistant Fluid Mobil Pyrogard 53
Rolls Royce Gas Engine Mobil Jet Oil II,
Mobil Jet Oil 254¹

¹ Check operators manual for recommended lubricant.

■ DANA CORPORATION

Warner Electric Industrial Products Division
Warren, MI, United States

OVERRUNNING, BACKSTOPPING, HOLDBACK AND INDEXING CLUTCHES

-40°F to 150°F Mobil Jet Oil II,
Avrex S, Turbo 256

■ DELTA RESEARCH CORPORATION

Livonia, MI, United States

SPECIAL ENGINEERED TRANSMISSIONS

Enclosed Gears — High Speed Mobil DTE 24¹,
Mobil Jet Oil II,
Mobil Jet Oil 254,
Mobil Aero HF

¹ Builder uses Mobil DTE 24 for test.

■ DRESSER FRANCE

Le Havre, France
Multiple recommendation

CLARK GAS TURBINES

Rolls-Royce Jet Engines Circulation Mobil Jet Oil II

■ DRESSER-RAND COMPANY

Turbo Products
Olean, NY, United States

GAS TURBINES

Gas Generator Oil System Mobil Jet Oil II

■ ELLIOTT ENERGY SYSTEMS, INC.

Stuart, FL, United States
Subsidiary of Elliott Company

TA SERIES TURBO ALTERNATORS

Bearings Circulation Mobil SHC 824,
Mobil Jet Oil II,
Avrex S Turbo 256

■ GENERAL ELECTRIC COMPANY

Schnectady, NY, United States

GAS TURBINES

Models LM 1600, LM 2500, Mobil Jet Oil II¹
LM 5000, LM 6000 (Aircraft
Derived Gas Turbines)

¹ When applications involving severe low and/or high temperatures are apparent, contact Equipment Builder Department for consultation with GE engineering personnel.

■ GENERAL ELECTRIC COMPANY

Aircraft Derivative Gas Turbines
Cincinnati, OH, United States

GAS TURBINES

Mobil LM 1600¹ Avrex S Turbo 256

Models LM 2500, 5000, 6000 Avrex S Turbo 256,
Mobil Jet Oil II,
Mobil Jet Oil 254

Model LM 500 Mobil Jet Oil II,
Mobil Jet Oil 254

¹ Model LM 1600 requires a MIL-L-7808 approved lubricant.

■ HITACHI SHIPPING YARD CORPORATION

Sakurajima Plant
Sakurajima, Konohana-ku, Osaka, Japan
(Hitachi Zosen K.K.)

GAS TURBINE GENERATOR

GT-10-1, -2, GT 12 and GT 15
(GM Allison License)
Gear and Bearings Circulation Mobil Jet Oil II

■ INGERSOLL RAND FRANCE

Ingersoll Rand France
Trappes, France
Multiple recommendation

GYRO-FLO COMPRESSORS (MOBILE VANES) SPIRO-FLO COMPRESSORS (SCREW TYPE) SUPER SPIRO-FLO COMPRESSORS (SCREW TYPE)

Compressor Circulation

Below -23°C Mobil Jet Oil II

GAS TURBINES¹

Allison generator, Circulation Mobil Jet Oil II
Ingersoll Rand compressor

¹ Current models: Mobil Jet Oil II for the Allison generator. Mobil DTE Oil Light for the compressor part (special considerations).

■ INGERSOLL-RAND COMPANY

Rotary Drill
Garland, TX, United States

BLASTHOLER — SELF-PROPELLED

DM20SP, DM25SP, DM35SP,
DM25SPH, DM35SPH, PTO
Series (Discontinued) 5, 7, 9

Screw Compressors MIL-L-23699B Mobil Jet Oil II

■ KAWASAKI HEAVY INDUSTRIES, LTD.

Motorcycle Division
Akashi Hyogo-ken, Japan
Kawasaki, Jukogyo K.K.

Their developed ATV will be manufactured at their US Plant in Lincoln, Nebraska and will be exported into European and Asia Pacific markets from 2001.

GAS GENERATOR

Bearings Circulation Mobil Jet Oil II

■ KAWASAKI Heavy Industries, Ltd.

Akashi, Hyogo-ken, Japan
Akashi Minami Works
(Kawasaki Jukogyo K.K.)

GAS TURBINE GENERATOR

PU Series

Turbine, Compressor and Circulation Mobil Jet Oil II
Generator Bearings

■ KNORR-BREMSE SYSTEME FUR SCHIENENFAHRZEUGE GMBH

80809 Munchen, Germany

PISTON COMPRESSORS IN RAIL CARS

Outside temperature Oil filled

Below -15°C Mobil Jet Oil II

■ KOBE STEEL, LTD.

Takasago, Hyogo-ken, Japan
Takasago Rotating Machinery Plant
(K.K. Kobe Seikoshu)

GAS TURBINE GENERATOR

KGT Series (GM, Allison, License)

Compressor and Turbine Circulation Mobil Jet Oil II
Bearings, Reduction Gears

■ KVAERNER ENERGY A.S., THERMAL POWER

Thermal Power
Oslo, N., Norway
Kvaerner
(Gas turbine power generation sets)

GAS TURBINE POWER GENERATION SETS¹

Gas Turbine, General Circulation System
Electric LM 6000, LM 2500+,
LM 2500, LM 2000, LM 1600

All Conditions Mobil Jet Oil II

¹ Please refer to relevant builder in MEBS for detailed information on each of the components of the generator set.

■ **KVAERNER ENERGY A.S., THERMAL POWER** *(continued)*

AERO DERIVATE GAS TURBINES

LM 2500-5000

Turbine separate Dirc. Mobil Jet Oil II¹

¹ Due to variations in the viscosity--demands depending on the construction of the plant, contact builder in each case.

■ **MOBILE DRILLING INC.**

Indianapolis, IN, United States

DRILLS

B-61
Safe-T Driver Hoist Clutch Mobil Jet Oil II
(Formsprag HPI-300)

B-31, B-47
Safe-T Driver Hoist Mobil Jet Oil II
B-53, B-80

Safe-T Driver Hoist Mobil Jet Oil II
(Formsprag HPI-500)

■ **SOLAR TURBINES**

Division of Caterpillar, Inc.
San Diego, CA, United States

GAS TURBINES AND GEAR UNITS^{1,2}

Class III - Synthetic Esters

MIL-L-23699
-54°F to 110°F Mobil Jet Oil II,
Mobil Jet Oil 254

¹ See Solar Engineering Specification ES9-244 for additional information pertaining to type, grade, and ambient temperature limits.

² Synthesized Hydrocarbon is the preferred lubricant recommendation for all units unless designed specially for fire resistant synthetic ester base fluids.

MERCURY TURBINE, ANTI FRICTION BEARING EQUIPPED

Main Oil System, all temps Reservoir Mobil Jet Oil II,
Mobil Jet Oil 254

■ **SUNDSTRAND CORPORATION**

Advanced Technology
Rockford, IL, United States
(NOT IN NEXT BOOK)

AIRCRAFT CONSTANT SPEED ALTERNATOR DRIVE

CSD Unit

Hydraulic Fluid Mobil Jet Oil II¹

¹ Check with Builder if Mobil Jet Oil 254 is requested.

■ **SUNDSTRAND POWER SYSTEMS**

Division of Sundstrand Aerospace Corp.
San Diego, CA, United States
(Formerly Sundstrand Turbomach)

GAS TURBINES

Gemini, Titan, Spartan (Obsolete)¹

Radial Gas Turbines

Main Oil Reservoir Mobil SHC 824²,
Mobil Jet Oil II,
Mobil DTE Oil Light,
Mobil DTE 797,
Mobil DTE 724 Oil

¹ These models were previously produced by Solar Turbines, San Diego, CA.

² Mobil SHC 824 is preferred for all units unless designed specifically for fire resistant or synthetic ester based fluids. Mobil Jet Oil II is approved for Gemini and Titan with proper seals and hoses.

■ **ULSTEIN TURBINE AS**

Bergen, Norway

EURODYN 1M1 MARINE PROPULSION GAS TURBINE

Turboshaft Engine

Non integrated gear Mobil Jet Oil 254

Integrated gear See Footnote¹

¹ Turbine tested and developed with Mobil Jet Oil 291, product preferentially recommended by Ulstein Turbine.