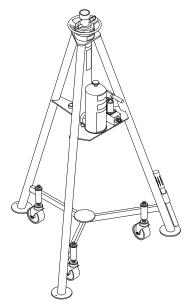


Operation & Service Manual



Model: 02-0566-0110 5 Ton Single Stage Jack

12/2004 - Rev. 02

Includes Illustrated Parts Lists

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APPE		•	MSDS	Hydraulic Fluid (MIL-H-5606)	

Revision Date Text Affected

02 12/2004 pg 2 5.1 added warning and illustrations

This product can not be modified without the written approval of Tronair, Inc. Any modifications done without written approval voids all warranties and releases Tronair, Inc., it suppliers, distributors, employees, or financial institutions from any liability from consequences that may occur.

1.0 DESCRIPTION

The Tronair Single Stage Jack incorporates the following quality features:

- Steel Construction
- Mechanical ram locknut prevents lowering of jack under load
- Mechanical extension
- Single speed, manually operated pump with pressure relief
- Uses standard MIL-H-5606 hydraulic fluid.
- Spring loaded retractable wheels

2.0 USAGE

The purpose of the jack is to lift the aircraft for maintenance. See Specifications for capacity of jack.

3.0 SPECIFICATIONS

Capacity: 10,000 lbs.
Closed Height: 66 inches
Mechanical Extension: 10 inches
Hydraulic Extension: 22 inches
Fully Extended: 98 inches
Weight: 140 lbs.

4.0 ASSEMBLY INSTRUCTIONS

4.1 GENERAL INFORMATION

This product should be assembled and/or repaired using good workmanship practices and proper tools. Bolts and elastic stopnuts should be tightened to a torque not to exceed industry standards for Grade '5' bolts. The 3/8-24 bolts should be tightened to 35 ft-lbs.

All replacement parts must be the same as or equal to the original parts supplied.

4.2 PRE-USE CHECKS

Refer to the Illustrated Parts List to identify and ensure that all parts are present.

- Generally check over unit to assure the tightness of all nuts, bolts and fittings.
- With rams completely collapsed, check hydraulic fluid level: correct level is one and one-half inch (1-1/2") below vent, with the hydraulic ram fully retracted. Replenish with MIL-H-606 fluid as required.

5.0 OPERATING INSTRUCTIONS

The user should be familiar with the following statements prior to using the jack.



CAUTION!

- 1. *Never* put hands between aircraft and jack pad. Aircraft struts may hang up and allow aircraft to suddenly drop.
- 2. Never align jack under aircraft by pounding on jack legs. Dented legs may lead to jack collapse.
- 3. Always lower ram locking nut(s) as aircraft is raised. Be sure ram nut(s) is seated fully after jacking.
- 4. Always raise and lower jacks simultaneously so that aircraft remains level.
- 5. Always use a tail or nose stand for additional stability.

5.1 JACK INSTRUCTIONS

To Raise Aircraft:

- 1. Place jack on a hard level surface.
- 2. Raise mechanical extension as close to aircraft jack pad as possible.

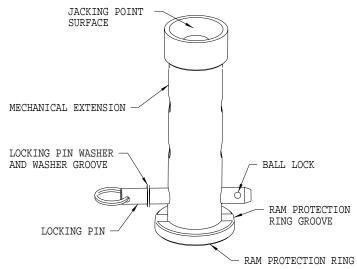




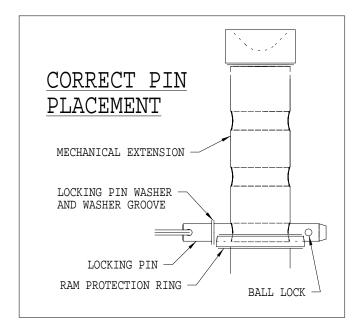
The locking pin MUST be placed in the ram protection ring groove and fully through the mechanical extension.

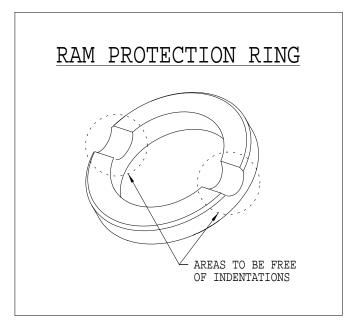
The locking pin washer and ball lock MUST be placed outside the ram protection ring.

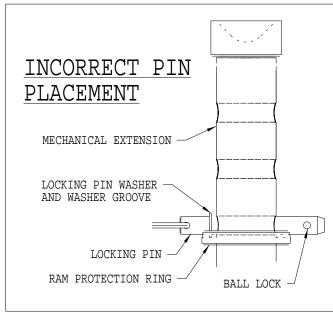
- Do not place extra locking pins in any other hole on the mechanical extension.
- Insure mating surfaces to jack point are free of debris and damage.
- Under no conditions should the locking pin washer or washer groove be inside the ram protection ring groove.
- Under no conditions should the locking pin's ball lock be inside the ram protection ring groove.
- Never use the jack if the ram protection ring is not installed.
- Never use the locking pin without a locking pin washer.
- Never use a locking pin that has been damaged.
- Never use a ram protection ring that has been damaged or deformed.
- Failure to comply could result in premature failure below certified weight and could cause serious injury including death.

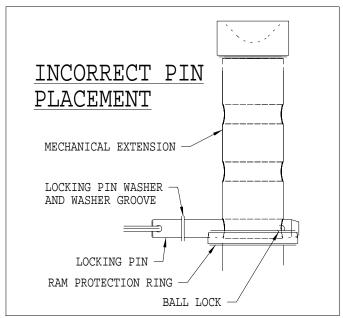


5.1 JACK INSTRUCTIONS (continued)









- 3. Close pump release valve and operate pump.
- 4. Lower ram locknuts as aircraft is raised.
- 5.1 Jack instructions continued on following page.

5.1 JACK INSTRUCTIONS (continued)

To Lower Aircraft:

- 1. Lower all jacks simultaneously.
- 2. If ram locking nut(s) is tight, raise jack slightly to release nut(s).
- 3. Loosen pump release valve slightly to slowly lower aircraft. Raise locking nut(s), as jack ram(s) lower.

4.

NOTE:

When using the jack during a washing or cleaning operation, the jack should be completely covered to protect it from cleaning solution, dirt and foreign matter that might get on or between the ram and cylinder causing damage to the seals and O-rings.

6.0 MAINTENANCE

6.1 GENERAL

- The jack should be stored with some type of cover to protect the jack from liquids (such as Skydrol or cleaning solutions) and other foreign matter that might get on or between ram and cylinder which will damage seals and O-rings.
- All maintenance and/or repair work should be done using good workmanship practices and proper tools. The work area should be clean and free of dirt.
- When O-rings and backup rings are removed, every effort should be made to avoid the contact of tools with the critical surfaces of parts. Surface deformities could cause degradation of seals and failure.
- It is good practice to replace both O-rings and backup rings once removed. Cut and damaged rings normally result in fluid leakage.
- If the cylinder bore is found to be rusty, it may be honed to a maximum diameter of 2.629 inches and a surface finish of 16 micro inches. If the pitting in the bore cannot be removed by this process, the jack cylinder must be replaced before the jack can be returned to service.
- At this time, flush old hydraulic fluid and dirt from overall system and replenish with new, clean hydraulic fluid.

6.2 SERVICING JACK

90-Day Routine Maintenance

If jack is not being used on a regular basis, every 90 days the jack should be fully extended and retracted to exercise the seals and to prevent rust build up on the cylinder I.D. While ram is extended, clean the threads and spray with DoALL RPM, LPS, or equivalent that is water repellent and will not harm BUNA "N" O-rings.

To Disassemble Jack For Seal Replacement:

- 1. Remove mounting plate (Item 31) by unscrewing three (3) socket head cap screws (Item 25).
- 2. Raise ram assembly (Item 27) to the point where it can be lifted from the jack cylinder.

To Reassemble Jack:

- 1. Re-assemble in reverse order of above.
- 2. Spray inside diameter of cylinder and outside diameter of ram (Items 1 and 27) with DoALL RPM, LPS, or equivalent water repellent that will not harm the BUNA "N" O-rings to protect surfaces from rusting when not in use.

NOTE: To minimize air entrapment under the rams, raise the oil level in the cylinder to chamfer of the cylinder prior to ram insertion.

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6.0 MAINTENANCE (continued)

6.3 REMOVING AND SERVICING PUMP

NOTE: If pump is found to be faulty, call the factory for replacement or replace seals as follows:

- 1. Review illustrated parts breakdown Pump. (HC-1753)
- 2. Clamp suction (push on) hose and remove hose from pump.
- 3. Uncouple output hose from pump.4. Remove two (2) pump mounting bolts. Remove pump.
- 5. Remove clevis pin assembly.
- 6. Remove four (4) socket head cap screws.
- 7. Remove flanges.
- 8. Remove tube assembly.
- 9. Replace O-rings and backup ring. (See pump parts list for kits available).
- 10. Re-assemble in reverse order.

JACK FUNCTION LOAD TEST 6.4

If function load testing of this jack is required:

- 1. Take all necessary precautions to prevent injury.
- 2. Always jack against a load and never against the jack itself.
- 3. Do not exceed a test load equal to the jack rated capacity plus 10%.

7.0 TROUBLE SHOOTING

RAM WILL NOT RISE OR RISES ERRATICALLY

PROBABLE CAUSE	CORRECTIVE ACTION
High pressure leaks (at joint, plugs or tubing)	Re-tighten or repair
Leaky discharge check valve	Pump rapidly to dislodge; Or repair pump
Leaky ram O-ring packing	Replace packing
Leaky release valve	Tighten release valve
Leaky pump O-ring packing	Repair pump
Lack of oil	Refill reservoir; check system for leaks
Sticking inlet check valve	Pump rapidly to dislodge; Or repair pump
Closed air vent	Open air vent
Air in hydraulic system	Bleed system

JACK WILL NOT LOWER

PROBABLE CAUSE	CORRECTIVE ACTION
Ram lock nut not loosened	Rotate nut as ram is lowered
Broken pump release valve	Repair pump
Bent ram	Replace suspected ram assembly

Parts List Index

Page	Contents	
	_	
7	Replacement Parts	
7 - 8	. Replacement Kits	
9 - 10	. Parts List Illustrations	

Parts List

Refer to Parts List Illustrations on Pages 9 - 10.

WHEN ORDERING REPLACEMENT PARTS/KITS, PLEASE SPECIFY MODEL & SERIAL NUMBER OF YOUR UNIT.

REPLACEMENT PARTS

<u>ITEM</u>	PART NUMBER	DESCRIPTION	QTY
2	H-1009-01	Assembly, Handle (Pump)	1
		Pad, Jack	
6	H-1128-02	Spring	1
10	TF-1043-03*15.0	Assembly, Hose, 15" long	1
		Elbow, Extra Long Male	
		Pad, Jack	
23	HJ-526-05	Extension	1
24	HJ-536	Ring, Protection	1
		Screw, Socket Head Cap, 5/16-18 x 5/8" long	
		Assembly, Ram (includes Seals)	
		Pin, 1/4" diameter x 1.8" long	
		Pin, 1/2" diameter x 2.6" long	
		Locknut	
31	HJ-513	Plate, Mounting	1

All other parts available in Replacement Kits only

REPLACEMENT KITS

ITEM	PART NUMBER	DESCRIPTION	QTY
	K-1049	Kit, Seal Replacement; consists of:	
26	HJ-512	Ring, Guide	1
		Ring, Backup	
		O-ring	
	K-1061-04	Kit, Reservoir Replacement; consists of:	
16	N-2410-01	Elbow, 90o Male	1
		Hose, 1/4 Gray x 9" long	
		Breather	
		Weldment, Reservoir (includes labels)	
		Stopnut, 1/4-20 Elastic	
		Flatwasher, 1/4 Narrow	
	K-1324	Kit, Jack Weldment Replacement; consists of	:
1	<i>7</i> -1171-01	•	

Replacement Kits List continued on following page.

Parts List

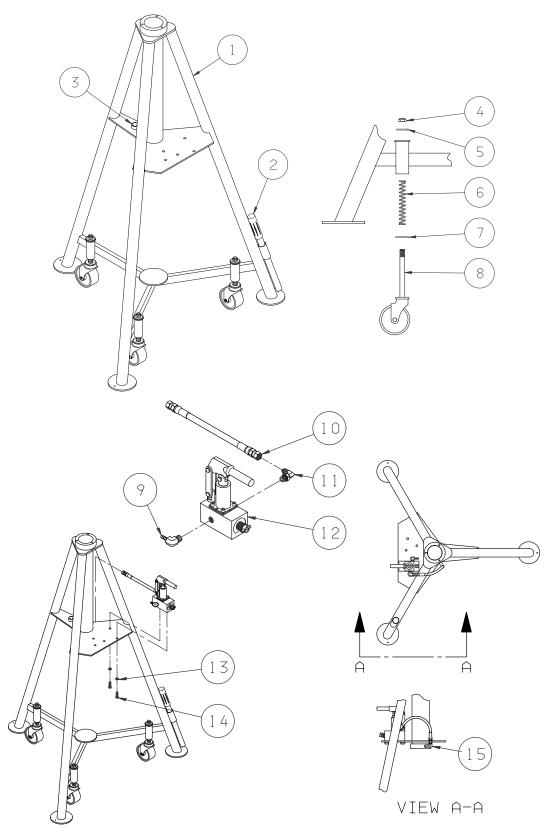
Refer to Parts List Illustrations on Pages 9 - 10.

WHEN ORDERING REPLACEMENT PARTS/KITS, PLEASE SPECIFY MODEL & SERIAL NUMBER OF YOUR UNIT.

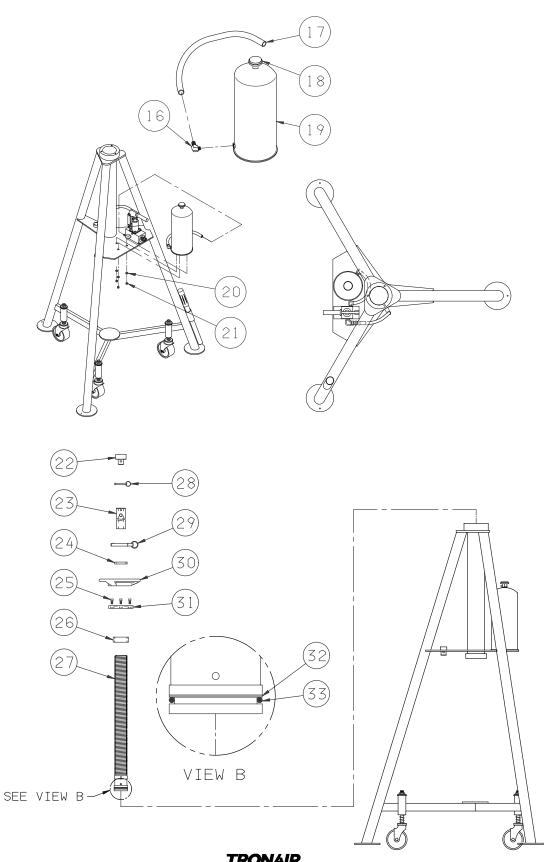
REPLACEMENT KITS

ITEM	PART NUMBER	DESCRIPTION	QTY
	K-1901-01	Kit, Pump Replacement; consists of:	
9	N-2410-11	Elbow, 90o Male	1
		Elbow, Straight Thread	
		Pump, Hydraulic Hand	
		Lockwasher, 3/8 Regular	
		Bolt, Hex Head, Grade 5, 3/8-16 x 1" long	
		Hose, 1/4 Gray x 9" long	
	K-2800	Kit, Caster Replacement; consists of:	
4	G-1203-1105	Jamnut, 5/8-18 Elastic	
5	G-1250-1100N	Flatwasher, 5/8 Narrow	1
7	G-1250-1100W	Flatwasher, 5/8 Wide	1
		Caster, Stem	

Parts List Illustrations



Parts List Illustrations



TRONAIR12/2004 – Rev. 02
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APPENDIX I

HC-1753 Hand Pump Parts List



PARTS LIST With Illustrations

08/2001 - Rev. OR

** When ordering Replacement Parts/Kits, please specify Model, Color and Serial Number of your Unit.**

Tronair, Inc.

1740 Eber Road Holland, Ohio 43528-9794 USA

Telephone: (419) 866-6301 • 800-426-6301

Fax: (419) 867-0634

Web Site: www.tronair.com E-mail: sales@tronair.com

Parts List

This pump is compatible with MIL-H-5606 / MIL-H-83282 Hydraulic Fluids only.

Reference Parts List Illustration on Page 3.

REPLACEMENT PARTS

	ITEM	PART NUMBER	DESCRIPTION	QTY
	3	5M1-000-001	Body, Pump	1
			Half, Flange	
			Screw, Socket Head Cap	
1			Handle	

All other parts available in Replacement Kits only.

REPLACEMENT KITS

ITEM	PART NUMBER	DESCRIPTION	QTY
	K-1000	Kit, Seal Replacement; consists of:	
4		O-ring, Release Screw	
		O-ring, Outlet Check	
		O-ring, Valve Body	
		Ring, Backup	
		O-ring, Piston	
		O-ring, Tube Seal	
		O-ring, Inlet Check	
		O-ring, Guide Shoe	
		Shoe, Piston Guide	
		Tool, Installation	
	K-1068	Kit, Linkage Replacement; consists of:	
		Pivot	
		Assembly, Linkage Pin	
		Strap	
		Assembly, Clevis Pin	
19		Bracket, Pump Handle	1
	K-1069	Kit, Internal Parts Replacement; consist	
♦ Not Shown		Ball, Release	1
7		Spring, Inlet Check	1
8		Spring, Outlet Check	1
9		Ball, Outlet Check	1
10		Ball, Inlet Check	1

Replacement Kits continued on following page.

 Although this item is listed in its particular kit, it is not used on HC-1753 pump. These items can be discarded.



Parts List

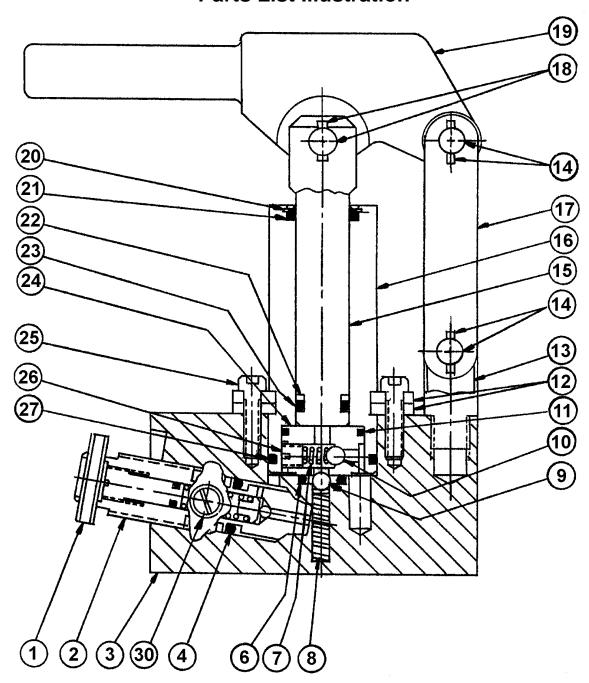
This pump is compatible with MIL-H-5606 / MIL-H-83282 Hydraulic Fluids only.

REPLACEMENT KITS

PART NUMBER	DESCRIPTION		
	K-1777	Kit, Piston/Cylinder Replacement; consis	ts of:
15		Piston	
16		Tube	
23		Assembly, Valve Body (Includes Items 7, 10	0, 23, 25)1
	K-2784	Kit, Release Screw Replacement; consist	
2		Screw, Release	
29		Retainer, Screw	

NOTE: Entire pump assembly can be purchased as a kit. See Hydraulic Jack Parts list.

Parts List Illustration





WARNING!

ITEM 2 IS A PRESET RELIEF VALVE. DO NOT DISASSEMBLE THIS VALVE. REPLACEMENT PARTS ARE AVAILABLE AS A PRESET RELIEF VALVE ASSEMBLY.





APPENDIX II

Material Safety Data Sheet

MIL-H-5606 Hydraulic Fluid

TRONAIR MSDS-1029

E%onMobil

------490110-00 MOBIL AERO HFA MATERIAL SAFETY DATA BULLETIN 1. PRODUCT AND COMPANY IDENTIFICATION _____ PRODUCT NAME: MOBIL AERO HFA SUPPLIER: EXXONMOBIL OIL CORPORATION 3225 GALLOWS RD. FAIRFAX, VA 22037 24 - Hour Health and Safety Emergency (call collect): 609-737-4411 24 - Hour Transportation Emergency: CHEMTREC: 800-424-9300 202-483-7616 LUBES AND FUELS: 281-834-3296 Product and Technical Information: Lubricants and Specialties: 800-662-4525 800-443-9966 Fuels Products: 800-947-9147 MSDS Fax on Demand: 613-228-1467 MSDS Internet Website: http://emmsds.ihssolutions.com/ 2. COMPOSITION/INFORMATION ON INGREDIENTS CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES GLOBALLY REPORTABLE MSDS INGREDIENTS: None. OTHER INGREDIENTS: Substance Name Approx. Wt% HYDROTREATED LIGHT NAPHTHENIC 85-95 DISTILLATE (PETROLEUM) (64742 - 53 - 6)See Section 8 for exposure limits (if applicable). ______ 3. HAZARDS IDENTIFICATION ______ This product is considered hazardous according to regulatory guidelines (See Section 15). EMERGENCY OVERVIEW: Red Liquid. DOT ERG No.: NA POTENTIAL HEALTH EFFECTS: Low viscosity material-if swallowed may

enter the lungs and cause lung damage. Prolonged repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.

For further health effects/toxicological data, see Section 11.

______ _____

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. Discard shoes if material has penetrated to inside surfaces. High pressure accidental injection through the skin requires immediate medical attention for possible incision, irrigation and/or debridement.

INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use mouth to mouth resuscitation.

INGESTION: Get medical assistance and call a physician immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: Material if ingested may be aspirated into the lungs and can cause chemical pneumonitis. Treat appropriately.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog. SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 105(221) (ASTM D-93).

Flammable Limits (approx.% vol.in air) - LEL: NE, UEL: NE NFPA HAZARD ID: Health: 1, Flammability: 1, Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Ventilate area. Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up with spark-resistant shovel and remove to appropriate waste disposal facility in accordance with current applicable laws and regulations.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: Avoid prolonged repeated skin contact. Avoid inhalation of vapors or mists. Wash thoroughly after handling. High pressure injection under the skin may occur due to the rupture of pressurized lines. Always seek medical attention.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Store in a cool, dry, well ventilated area away from heat.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: When mists/aerosols can occur, the following are recommended: 5 mg/m3(as oil mist) - ACGIH Threshold Limit Value (TLV), 10 mg/m3 (as oil mist)

- ACGIH Short Term Exposure Limit (STEL), 5 mg/m3 (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: Use in well ventilated area. If mechanical ventilation is necessary, equipment should be explosion proof.

RESPIRATORY PROTECTION: Approved respiratory protective equipment must be used when vapor or mists concentrations exceed applicable standards. No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: If prolonged or repeated skin contact is likely, impervious gloves should be worn. Good personal hygiene practices should always be followed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Red

```
ODOR: Mild
ODOR THRESHOLD-ppm: NE
AN: Hq
BOILING POINT C(F): NE
MELTING POINT C(F): NA
FLASH POINT C(F): > 105(221) (ASTM D-93)
FLAMMABILITY (solids): NE
AUTO FLAMMABILITY C(F): NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: NE
VAPOR DENSITY: NE
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.85
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: NE
VISCOSITY AT 40 C, cSt: 13.8
VISCOSITY AT 100 C, cSt: 5.3
POUR POINT C(F): -70(-94)
FREEZING POINT C(F): NE
VOC: < 80.00 (Wt. %); 5.669 lbs/gal
           NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE
10. STABILITY AND REACTIVITY
                            STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static
    electricity. Protect from direct sunlight.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at
    ambient temperatures.
HAZARDOUS POLYMERIZATION: Will not occur.
______
11. TOXICOLOGICAL DATA
---ACUTE TOXICOLOGY---
ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000
    mg/kg). ---Based on testing of similar products and/or the
    components.
DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than
    2000 mg/kg). ---Based on testing of similar products and/or the
    components.
INHALATION TOXICITY (RATS): Not established
EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score:
    greater than 6 but 15 or less). ---Based on testing of similar
    products and/or the components.
```

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Irritation Index: greater than 0.5 but less than 3). --- Based

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences

Laboratory by dermal application to rats 5 days/week for 90 days

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary

on testing of similar products and/or the components.

at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as the Mobil Modified Ames Test and IP-346.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: This environmental assessment was conducted using information on the individual components as no test data was available for this specific formulation.

ECOTOXICITY: This material is not expected to be harmful to aquatic organisms.

MOBILITY: Dissolution of the higher molecular weight hydrocarbon components in water will be limited, but losses through sediment adsorption may be significant.

PERSISTENCE AND DEGRADABILITY: The majority of the components in this product are expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL: This product contains components with the potential to bio-accumulate.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives.

Symbol: Not applicable.

Risk Phrase(s): Not applicable.

Safety Phrase(s): S24-62.

Avoid contact with skin. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Contains: Low Viscosity Oil.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, METI, and DSL.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: CHRONIC ACUTE

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK 24=NO RTK 25=PA RTK 26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: AVIATION HYDRAULIC FLUID

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Precautionary Label Text:

CONTAINS LOW VISCOSITY OIL

CAUTION!

LOW VISCOSITY MATERIAL-IF SWALLOWED, MAY BE ASPIRATED AND CAN CAUSE SERIOUS OR FATAL LUNG DAMAGE. MAY CAUSE NOSE, THROAT AND LUNG IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS.

PROLONGED, REPEATED SKIN CONTACT MAY CAUSE IRRITATION.

Keep away from heat, sparks, and flame. Avoid breathing vapor. Avoid contact with skin or clothing. Keep container closed. Use with adequate ventilation.

FIRST AID: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician immediately. In case of contact, wash skin with soap and water. Remove contaminated clothing. Call a physician if irritation persists. Wash or dispose of contaminated clothing. If swallowed, seek immediate medical attention. Do not induce vomiting. Only induce vomiting at the instruction of a physician.

For industrial use only. Not intended or suitable for use in or around a household or dwelling.

Empty container may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings and precautions must be observed until container has been thoroughly cleaned or destroyed.

Refer to product Material Safety Data Bulletin for further safety and health information.

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Prepared by: ExxonMobil Oil Corporation Environmental Health and Safety Department, Clinton, USA