



Crankcase Oil R-Series Pumps

Models 5 Gal. **6115**
 16 Gal. **6116**

TYPICAL INSPECTION TESTS

Grade ASTM	465
Grade AGMA.....	3
API Specific Gravity, @60°F	29.6
Specific Gravity @60°F	0.8783
Color ASTM.....	Blue
Flash Point COC °F	462°
Fire Point COC °F	554°
Pour Point °F Typical	-11°
Kinematic Viscosity	
104°F, cst.....	100.0
212°F, cst.....	13.0
Viscosity Index	129
Aniline Point °F.....	190°>
Foam Test ASTM	Pass
Total Acid Number, mg*KOH/g	0.9
Total Base Number, mg*KOH/g	0.6
Carbon Residue, Rams, Wt. %026
Zinc Content, ppm	500
Phosphorus Content, ppm.....	360
Rust Test, ASTM D 665, A&B	Pass
Copper Corrosion, 3 Hrs. @212°F	1a

FEATURES

- Special custom-blend, multi-viscosity, ISO 100 petroleum based hydraulic oil for high pressure pump systems.
- Non-detergent for greater wear and protection at high pressure and continuous duty operation.
- Anti-wear, high pressure, and oxidizer inhibitor additives for maximum protection and wear.
- Runs significantly cooler than typical oils, enhancing the longevity of components.

SPECIFICATIONS

	6115	6116
Special Hydraulic Grade.....	ISO 100	ISO 100
Capacity	5 Gal.	16 Gal.
Weight	42.75 Lbs.	126 Lbs.
Dimensions	13.25x13.25x16"	14.75x27"

GENERAL USE

Establishing a regular crankcase oil change schedule is one of the most important steps in preventative maintenance and to assure long pump life. **Check for oil in the crankcase before starting your pump.** Running your pump without oil will VOID the Warranty. Periodically inspect to assure the oil level is at the 3/4 position on the gauge. Remove the oil cap on the top of the crankcase and inspect for water or other contaminants in the oil. Change immediately, if discolored or contaminated. Change initial fill after 20 hours running period. Change oil every 6 months or at 3000 hour intervals thereafter.

Refer to individual pump data sheets for specified amount of oil for each pump. Fill the crankcase to the 3/4 position on the oil gauge prior to operating the pump. Check the oil level daily for optimum preventative maintenance.

Bare pumps are shipped without oil. If storing the pump for more than three months is required, it is recommended to completely fill the crankcase with oil.

“Customer confidence is our greatest asset”

MATERIAL SAFETY DATA SHEET

7-01-06

Product Trade Name: *CAT PUMPS Premium Grade Hydraulic*
Chemical Name & Synonyms: *Non-Detergent Multi-Viscosity ISO-100 Grade with Anti-Wear, High Pressure, and Oxidation Inhibitor Additives*
Chemical Family: *Petroleum Hydrocarbon plus additives*
Formula: *Petroleum Base Stock and Zinc Salt of Dialkyl Dithiophosphoric Acid*

National Fire Protection Association 704M Signal (or estimate)
Freight Class: 65
EMERGENCY NUMBER: 800-424-9300

I. HAZARDOUS INGREDIENTS - IDENTITY INFORMATION

OSHA PELHydrotreated Paraffinic Base Mixture.....5 mg/m³ (oil mist)
ACGIH TWA.....5 mg/m³ (oil mist)
No regulated ingredients. Contains ZDDP (below reportable threshold).
Evenly refined mineral oils.
Proprietary additives.

II. PHYSICAL DATA

a. Boiling point (°F): *Not determined*
b. Vapor pressure (mm Hg): *Negligible at ambient conditions*
c. Vapor density (Air = 1): *Greater than air*
d. Solubility in water (%): *Negligible*
e. Specific gravity (H₂O = 1): *0.8783*
f. Percent volatile by volume: *Negligible*
g. Evaporation rate: (Butyl Acetate=1) *Negligible*
h. Appearance and odor: *Dark blue fluid, mild, bland hydrocarbon odor*
i. Melting point: *Liquid*

III. FIRE AND EXPLOSION HAZARD DATA

a. Flash point: *>462°F*
b. Ignition temperature (°F): *730 estimated*
c. Flammable limitation: *LEL 0.9% UEL 7%*
d. Extinguishing media: *Water Spray, Foam, Co₂, Dry Chemicals*
e. Special fire fighting procedures: *Use water spray to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors. Utilize air-supplied breathing equipment in confined or enclosed areas.*
f. Unusual fire and explosion hazards: *Dense smoke may be generated while burning. Toxic fumes, gases or vapor may evolve on burning. Heavy flammable vapors may settle along ground level and low spots to create an invisible fire hazard. The vapors may extend to sources of ignition and flashback.*
g. HMIS Rating: *Health - 1, Fire - 1, Reactivity - 0, Special Hazard - B*

IV. HEALTH HAZARD DATA

a. Route(s) of Entry: *Inhalation Not a problem at room temperature/avoid mist
Skin Yes, if under high pressure
Ingestion Possible
Eye Yes, may cause irritation*
b. Health Hazards (Acute and Chronic): *Prolonged or repeated skin contact may cause irritation and cause a skin rash (dermatitis). Eye contact can cause discomfort. Ingestion of more than one tablespoon can cause gastrointestinal distress.*
c. Carcinogenicity: *NTP No
IARC Monographs No
OSHA Regulated No*
d. Medical Conditions: *Generally Aggravated by Exposure: Product has a low order of toxicity. In normal use should not be harmful.*

Emergency and First Aid Procedures:

a. Eyes: *Flush with clean, clear water until irritation subsides. If irritation persists, see a physician.*
b. Skin: *Remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation persists, see a physician.*
c. Inhalation: *Vapor pressure is very low and inhalation at room temperature is not a problem.*
e. Ingestion: *DO NOT INDUCE VOMITING, CONTACT A PHYSICIAN.*

V. REACTIVITY DATA

a. Stability: *Stable*
b. Incompatible materials: *Strong oxidizing materials and acids.*
c. Hazardous Decomposition Products: *May form oxides of carbon, sulfur, phosphorus and boron if combusted. Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete combustion.*
d. Hazardous Polymerization: *Will not occur*
e. Conditions to avoid: *High temperatures and product contamination.*

VI. PRECAUTIONS FOR SAFE HANDLING AND USE

a. Steps to be taken in case material is released or spilled: *Eliminate sources of ignition. Prevent additional discharge of material. Contain spill with use of sand or earth. Keep spill from entering sewers or waterways. Recover by explosion proof pump, hand pump, or suitable absorbent (noncombustible) into appropriate containers.*
b. Waste disposal methods: *Disposal must be in accordance with local, state and federal regulations.*
c. Precautions to be taken in handling and storing: *Keep containers closed when not in use. Store in cool, dry area away from sources of ignition, or oxidizing materials.*
d. Other precautions: *Do not weld, cut, solder, drill, glaze or pressurize empty drums. Fumes can be explosive.*

VII. SPECIAL PROTECTION INFORMATION

a. Respiratory Protection: *Normally not needed.*
b. Ventilation: *Local exhaust: Not Necessary
Mechanical (General): Recommended
Special: No Other: No*
c. Protective Gloves: *Oil resistant (neoprene or nitrile rubber).*
d. Eye Protection: *Chemical goggles, splash shield.*
e. Other Protective Clothing or Equipment: *Oil resistant apron and over-boots if desired.*
f. Work/Hygienic Practices: *Laundry contaminated clothing before re-use. Cleanse skin thoroughly after contact. Discard oil soaked shoes or articles which cannot be decontaminated.*

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

World Headquarters

CAT PUMPS

1681 - 94th Lane N.E. Minneapolis, MN 55449-4324

Phone (763) 780-5440 — FAX (763) 780-2958

e-mail: techsupport@catpumps.com

www.catpumps.com

International Inquiries

FAX (763) 785-4329

e-mail: intlsales@catpumps.com



The Pumps with Nine Lives

CAT PUMPS (U.K.) LTD.

1 Fleet Business Park, Sandy Lane, Church Crookham
FLEET, Hampshire, GU52 8BF, England
Phone Fleet 44 1252-622031 — Fax 44 1252-626655

e-mail: sales@catpumps.co.uk

N.V. CAT PUMPS INTERNATIONAL S.A.

Heiveldkens 6A, B-2550 Kontich, Belgium
Phone 32-3-450.71.50 — Fax 32-3-450.71.51

e-mail: cpi@catpumps.be www.catpumps.be

CAT PUMPS DEUTSCHLAND GmbH

Buchwiese 2, D-65510 Idstein, Germany
Phone 49 6126-9303 0 — Fax 49 6126-9303 33
e-mail: catpumps@t-online.de www.catpumps.de