



7500 MONOLEC® Power Fluid

*An advanced concept in the lubrication of
combination gear-hydraulic (wet brake) systems.*

Highly versatile, LE's 7500 Monolec Power Fluid is designed to meet the unusual operating needs of most combination gear-hydraulic systems and hydraulic transmissions in material handling, construction, manufacturing, trucks and farm equipment.

Allis-Chalmers

David Brown

Deutz

International Harvester

Versatile

Minneapolis-Moline

Renk

Sunstrand Hydraulic

Transmissions

Caterpillar

Oliver

Ford

J. I. Case

Komatsu

Massey Ferguson

Steiger

White

John Deere

Kubota

Each of these manufacturers has slightly different physical characteristics and specifications for their gear-hydraulic systems. LE's 7500 Monolec Power Fluid is formulated to give maximum operating results, even under the most severe field conditions, in each of these types of units.

USER BENEFITS:

LE's 7500 Monolec Power Fluid reduces wear and gives uninterrupted protection through these features:

- **Carefully selected and refined paraffinic base oils** - have higher flash and fire points, tougher film strength, better oiliness or lubricity and greater water resistance and reduced wear.
- **Control of rust and corrosion** - through special rust inhibitors in LE's 7500 Monolec Power

Fluid which provides "plating action" on metal to prevent rust formation. Other additives control potentially damaging acid corrosion.

- **Foam prevention** - long lasting foam suppressant breaks up foam to eliminate fading and "chatter," reduce pump cavitation and lubricant leakage.
- **Seal compatibility** - using 100% paraffinic base oils, which have a higher aniline point, LE's 7500 Monolec Power Fluid helps protect seal and hose material against deterioration.

Extensive use in widely varying applications has proven that LE's 7500 Monolec Power Fluid:

Allows easier operation in cold temperatures

Reduces pump and gear metal wear

Decreases downtime

Eliminates foam

Lowers operating temperatures

Produces even power

Reduces corrosive wear

Reduces lubricant inventory

Reduces parts cost

Resists oxidation

Resists water

WHAT IS MONOLEC?

Monolec is LE's exclusive wear-reducing additive which has proven its extraordinary performance in thousands of applications. It is an invaluable component in LE's industrial oils, engine oils and other LE lubricants bearing the Monolec tradename.

Monolec creates a single molecular lubricating film on the metal surface, vastly increasing film strength without affecting tolerances. **LE's Monolec** allows opposing surfaces to slide by one another with greatly reduced friction, heat and wear.

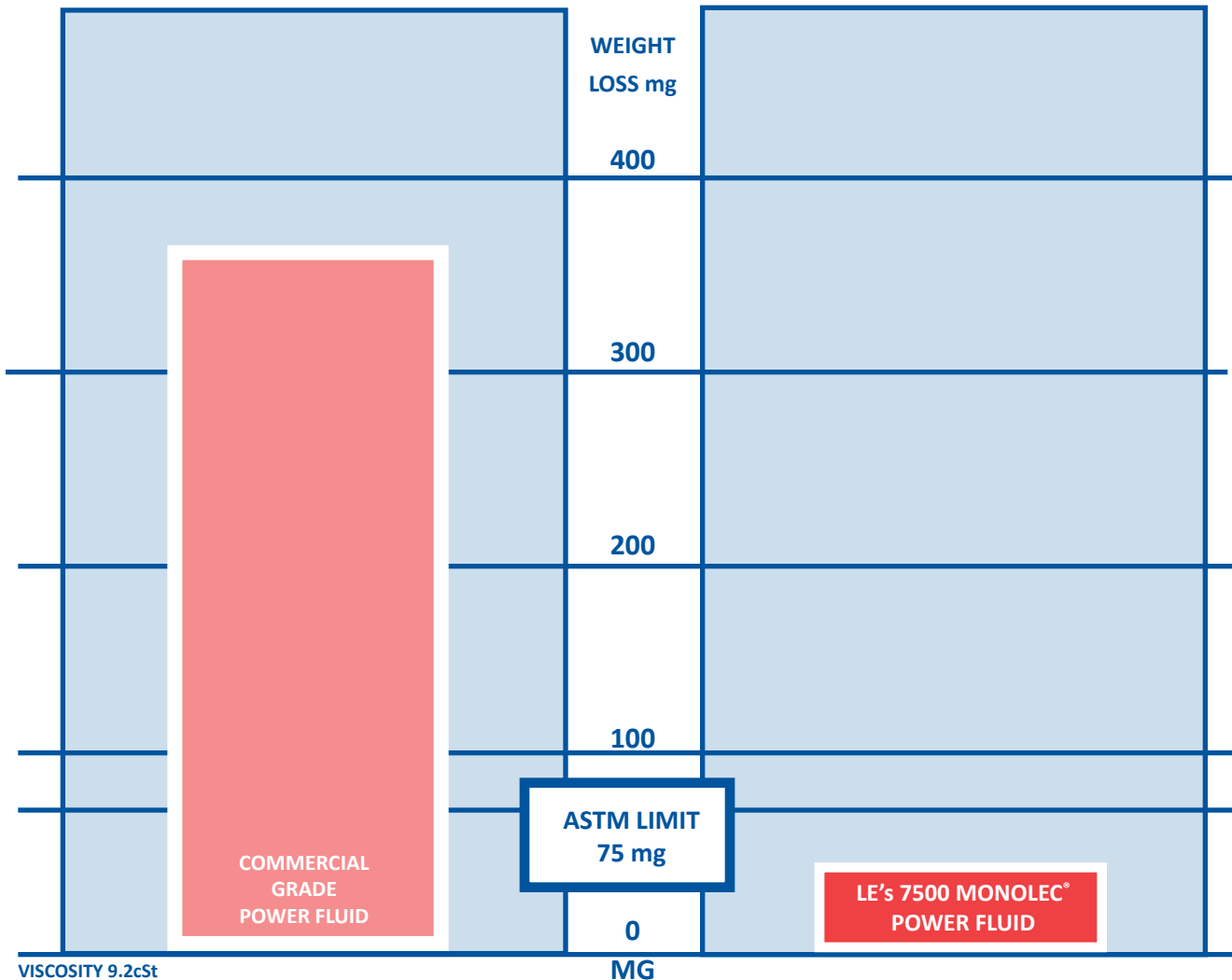


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LE operates under an ISO 9001
Certified Quality System

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ASTM D4998 GEAR WEAR TEST RESULTS



VISCOSITY 9.2cSt

TEMPERATURE 250°F

The graph above shows the results of the ASTM D4998 Gear Wear Test which utilizes a modified FZG apparatus that operates at gear loadings of 284,000 psi (10th load stage), speeds of 100 rpm, and a temperature of 121°C (250°F) for a duration of 10 hours. At the end of the test, the gears are removed, weighed and visually inspected.

This test represents a close correlation with three tractor manufacturer tests for gear wear. The manufacturers are Ford, J. I. Case and International Harvester. A weight loss of 50 milligrams or less also shows excellent performance in these three major tractor OEM gear wear tests. Because of this correlation,

this Gear Wear Test was adopted as the ASTM D4998 standard test method for gear wear in tractor hydraulic fluids. The upper limit for gear weight loss in the ASTM standard is 75 milligrams. LE's 7500 Monolec Power Fluid exhibited a weight loss of only 35 milligrams. The commercial grade power fluid demonstrated a weight loss of 366 milligrams. This shows the superior protection provided by Monolec, LE's exclusive wear-reducing additive. Although this test demonstrates the benefit to tractors, similar protection of gears can be anticipated in other severe power transmission applications using LE's 7500 Monolec Power Fluid.



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LJ30044
Rev. 04-04
7500 Flyer



TECHNICAL DATA BULLETIN

7500 MONOLEC® Power Fluid

DESCRIPTION:

Heavy-duty fluid formulated for certain hydraulic transmissions and common sump hydraulic-gear systems as found in farm, construction and industrial tractors. Made from high quality paraffinic base oils and carefully selected additives. Contains Monolec®, LE's exclusive wear-reducing additive.

PHYSICAL CHARACTERISTICS—TYPICAL:

| | |
|----------------------|-----------|
| Gravity, °API | 29.7 |
| Viscosity | |
| SUS @100°F (38°C) | 311.7 |
| SUS @210°F (99°C) | 59.08 |
| cSt @ 40°C (104°F) | 61.25 |
| cSt @100°C (212°F) | 9.83 |
| Viscosity Index | 130 |
| Flash Point, °F (°C) | 433 (223) |
| Pour Point, °F (°C) | -33 (-36) |
| Color | Red |

TEST RESULTS:

| | |
|--|------|
| Cooper Corrosion, ASTM D-130 | 1a |
| Rust Test, ASTM D-665, 24 hrs. Fresh Water | Pass |
| Four Ball Wear, ASTM D-4172 Scar Dia., mm | 0.34 |

MEETS PERFORMANCE REQUIREMENTS OF:

John Deere

J20 C
J20 A
J12 B/C
J21 A
JDT 303
Quatrol®

Ford New Holland (Fiat)

Including: Ford, Sperry-Vickers, Versatile, New Holland, Fiat

ESN-M2C134-D
ESN-M2C134-A/B/C
ESN-M2C86-B/C
ESN-M2C53-A/B
ESN-M2C48-A/B
ESN-M2C43
ESN-M2C41-B
ESN-M2C92-A
Specification 23M or 24M (Versatile)
I-286-S (Eaton/Vickers)
M-2950-S (Eaton/Vickers)

Massey-Ferguson

M-1110
M-1127A/B
M-1129A
M-1135
M-1141

Caterpillar

TO-2

J I Case

Including: International Harvester, Case-IH, Steiger, David Brown, McCormick Farmall

MS-1204, JIC 185
MS-1205, JIC 185
MS-1206
MS-1207
MS-1210, JIC 145
JIC 143/144
B-6 (International Harvester)
SEMS 17001 (Steiger)

AGCO

Including: AGCO-Allis, Allis-Chalmers, Deutz-Allis, White Farm Equipment, Minneapolis-Moline, Oliver, New Idea

Power Fluid 821XL
Q-1826
Q-1766 (Q-1722), Q-1766B
Q-1705
Q-1802
Type 55

Kubota

UDT

Hesston & Hesston-Fiat (tractors only)

AF-87

Renk-Doromat

873, 874 A/B

Dennison

HF-1, HF-2

LEADERS IN LUBRICANTS

LUBRICATION ENGINEERS, Inc.

Other Manufacturers:

| | |
|---------------------------------------|-----------|
| Belarus | Valmet |
| Eaton Hydraulics | IMT |
| International Hough (Dresser) | Kioto |
| Komatsu & Komatsu/Dresser | Landini |
| Leyland | Same |
| Mitsubishi | Universal |
| Sauer-Danfoss (Sundstrand Hydraulics) | Yanmar |

APPLICATION:

Common sump systems calling for tractor hydraulic fluids and combining gear-hydraulic power, and/or power steering and wet brakes. Heavy duty automatic transmissions in on and off road applications.

RECOMMENDATION:

Not to be used in any gearbox for EP or straight mineral gear oils of SAE 90 or SAE 140 weight.

BENEFICIAL QUALITIES:

Contains Monolec[®], LE's exclusive wear-reducing additive.

USDA H2

Low pour point.

Keeps systems cleaner, longer.

Special rust inhibitors protect system.

One fluid for all units reduces inventory.

Eliminates foaming.

Eliminates power fade and "chatter."

Paraffinic base oil and special oxidation inhibitors give longer oil life.

Increased uptime.

Even power flow.

LI50039
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TDB/7500