



Hi-Top™ ISO 68

Advanced Performance Single Grade Hydraulic Oil



Single-grade hydraulic oil specifically formulated for construction and heavy industrial equipment.

Provides superior protection against leaking seals, contaminants, pump wear and erratic operation.

HYDRAULIC OIL OF CHOICE FOR ALMOST EVERY SINGLE-GRADE APPLICATION

Provides Superior Equipment Protection for:

- Industrial Manufacturing
- Food processing
- Steel Mills & Foundries
- Paper mills, printing, & packaging
- Federal, State & Local Agencies
- Construction, Mining, Agriculture
- Excavation & Demolition
- Utility Construction
- Concrete & Asphalt paving



For Peak Performance, use with LubeMaster System Purge



Controls Seal Swell to Help Prevent Seals From Leaking



Highly Resistant to Oxidation



Controls Water and Other Contaminants



Controls Foaming



Prevents Rust and Corrosion



Prevents Pump and Cylinder Wear



Ideal for Use With Vane Pumps, Piston Pumps, Gear Pumps

Meets or Exceeds the Following Performance Requirements:

- Dennison-Abex HF-1, HF-2, HF-O
- Vickers I-286-S and M-2950-S
- Ford M6C32
- GM LH Specs: 04, 06, 03
- JCB AW VG-32
- Parsons AMCA AW Hydraulic
- DIN 51524 part 2



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Hi-Top Single weight oils contain a total additive package that sets it apart from other hydraulic oils

Additives

User Benefits

Premium Grade Base Oil	Superior grade, highly-refined base oil resists oxidation and high-temperature breakdown to maintain better lubricity.
Seal conditioners	Special compounds that soften and condition seals to keep them from hardening and cracking.
Leak inhibitors	Most seal leaks occur because many oils cause seals to shrink. Special agents provide a controlled swell to bring the seals back to their normal size.
Rust and Corrosion Inhibitors	Blocks out corrosive elements such as acids, water, condensate and steam by forming a protective barrier on equipment surfaces to prevent chemical wear.
Oxidation Inhibitors	Extends service life of the lubricant by retarding the oxidation or breakdown process.
Demulsifiers	Separates water from oil to keep metal surfaces dry. Allows excess water to be drained from equipment.
Anti-Wear Agents	Forms a lubricant film on metal surfaces in the presence of heavy loads and high temperatures. Prevents cold welding.
Anti-Foam Agents	Inhibit oil foaming during operation to reduce seal pressure, prevent pump cavitation wear and decrease air entrapment that can cause erratic operation.
Sludge inhibitors	Keeps seals cleaner by preventing the build-up of sludge, varnish and lacquer.
Shock Load Reducers	Cushions impact to minimize the stress, vibration and chatter that can occur under heavy loads and during start-stop operations.
Friction Reducers	Plates out on metal surfaces to prevent friction and wear under heavy loads.
Metal Deactivators	Prevent corrosion on yellow metals such as bronze, copper and brass.
Pour Poin Depressants	Keeps oil flowing properly in cold temperatures. Lowers frictional drag and keeps equipment running in temperatures down to - 20 degrees.

PHYSICAL PROPERTIES

	HI TOP ISO 68
API Gravity 60/60°F	29.3
lbs./gal.	7.328
Specific Gravity:	0.88
Evaporation Rate:	<0.01
Fire Coc. °F	445
Flash Point: °F	450
Viscosity SAE	20
cSt. @ 40 °C	67.5
cSt. @ 100 °C	8.66
Viscosity Index	106
Four Ball Wear Test, Scar Diameter, MM (ASTM D2266):	0.3
Vickers Pump Wear Test, mg Steel	20
Pour Point ° C	-34

IDEAL FOR USE IN:

Heavy duty straight hydraulics, all Sperry-Vickers vane and piston pumps for standard operation (200 psi, 1200 rpm, 65-85°C) or severe operation (3000 psi, 2400 rpm, >95°C).

DO NOT USE FOR:

Brake systems, transmissions, aircraft, Lucas hydraulic pumps or other silver-lined pumps. Not for systems requiring water-based hydraulic oils. Not for universal multi-purpose power transmission systems found in rubber-tired backhoes and tractors (use Lubemaster Lubra-Torque™)

