

## G-Special Hydraulic HVLP- 22, 32, 46

Multipurpose Hydraulic Oils



Hydraulic systems



Multigrade



Excellent oil film strength



Oxidation Stability



Antiwear protection



Excellent filterability



Mineral base oils

**G-Special Hydraulic HVLP** oils are high performance, anti-wear oils designed for hydraulic systems on stationary and mobile equipment that operate in climates where ambient temperatures can vary widely. They are based on specially selected high viscosity index base oils and additive technology to provide long oil life, reduced shear rate and minimized deposit formation in hydraulic systems operating in severe conditions.

### Applications



- Hydraulic and fluid power transmission systems operating in wide variations of temperature
- Off highway industries including: construction, mining, quarrying, logging, municipal machinery
- Stationary hydraulic equipment operating outdoors
- Hydraulic pumps by wide range of manufacturers, including Denison, Cincinnati Machine, Eaton Vickers, Bosch Rexroth

Features	Advantages and Potential Benefits
High viscosity index/good shear stability	Provide the required oil film to protect parts over a long service life
Oxidation resistance	Resist the formation of acidic products and sludge
Anti-wear protection	Proven additives help to reduce wear and protects pumps and components for extended equipment life
Excellent filterability	In combination with active additives reduce the impact of contaminants on filter blocking to prolong the life of hydraulic equipment
Effective thermal stability	Reduce deposits and improve valve performance
Rapid air release	Quick air release without excessive foaming and reduce cavitation to prolong engine life

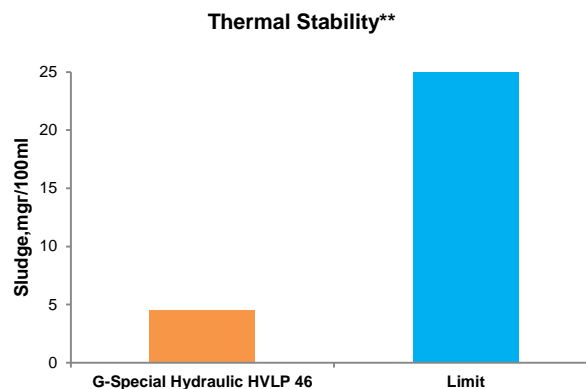
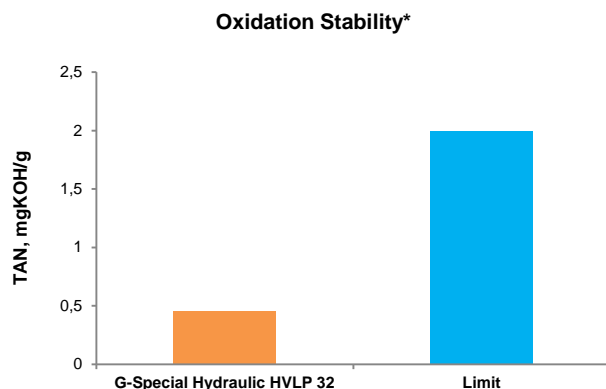
### Meets the requirements:

- DIN 51524 Part 3
- Eaton Vickers 35VQ25
- Bosch Rexroth RE 90220-01
- Denison HF-0,1,2 (ISO 32/46)
- MAG P-68 (ISO 32)
- MAG P-70 (ISO 46)

## Typical Characteristics

Properties	Method	G-Special Hydraulic HVLP- 22	G-Special Hydraulic HVLP- 32	G-Special Hydraulic HVLP- 46
ISO Viscosity Grade		22	32	46
Kinematic Viscosity @40°C, mm <sup>2</sup> /s	ASTM D445	22,0	32,0	46,0
Kinematic Viscosity @100°C, mm <sup>2</sup> /s	ASTM D445	4,9	6,8	7,9
Kinematic Viscosity @low temperatures, mm <sup>2</sup> /s	ASTM D445	700 (@-20°C)	1200 (@-20°C)	1000 (@-10°C)
Viscosity Index	ASTM D2270	160	175	143
Flash Point (COC), °C	ASTM D92	196	218	232
Pour Point, °C	ASTM D97	-52	-48	-42
Cleanliness class, max	ISO 4406	-/17/14 (-/15/13*)	-/17/14 (-/15/13*)	-/17/14 (-/15/13*)
Density @15°C, kg/m <sup>3</sup>	ASTM D4052	867	874	879

\* - available upon request



\*ASTM D664; \*\*ASTM D2070

## Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.