



## PRODUCT DATA SHEET

# NATIONAL™ PREMIUM II AW

## HYDRAULIC OILS

### PRODUCT DESCRIPTION

NATIONAL PREMIUM II AW HYDRAULIC OILS are long-lasting, anti-foaming oils designed to protect the life of high-speed hydraulic pumps and motors; offering superior protection against water contamination, rust, corrosion and oxidation. Formulated with Premium Group II paraffinic base oils each single-grade formula — available in six different ISO viscosities <sup>2</sup> — outperforms other commercial oils in thermal, oxidative and hydrolytic stability.

### INDUSTRY AND OEM APPLICATIONS <sup>3</sup>:

- ◆ Parker Denison HF-0 (HF-1 and HF-2 are included under the HF-0 designation)
- ◆ Eaton Vickers E-FDGN-TB002-E (this specification supersedes I-286-S and M-2950-S)
- ◆ GM Lubricant Standard LH-03-1-11, LH-04-1-11, LH-06-1-11
- ◆ Racine, variable volume pump
- ◆ FIVES (formerly MAG, formerly Cincinnati Milacron) P-68, P-69, P-70
- ◆ B.F. Goodrich 0152
- ◆ Lee-Norse 100-1, Bosch Rexroth RD/RE 90220-1
- ◆ Toshiba Machinery
- ◆ Afnor E-48-603
- ◆ ISO 11158, ASTM D6158-05, DIN 51524-2

### FEATURES :

- ✓ Fast air release and great foam inhibition minimizes pump cavitation in systems with high circulation rates
- ✓ Excellent water separation (demulsibility) that facilitates water removal
- ✓ Excellent thermal and oxidation stability that reduces the formation of deposits in reservoirs
- ✓ Provides excellent wear protection
- ✓ Minimum viscosity change over a wide temperature range

D0280815

5009 WEST 81ST STREET | INDIANAPOLIS | INDIANA | 46268 | 800-829-8899 | FAX 317-875-0889

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes that the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



# PRODUCT DATA SHEET

## NATIONAL™ PREMIUM II AW

### HYDRAULIC OILS

#### TECHNICAL DATA

(typical values <sup>1)</sup>)

ISO GRADE		10	22	32	46	68	100
Product Number		07-122610	07-122622	07-121032	07-121046	07-121068	07-121100
SDS Number		S094.1	S026.2	S027.2	S028.3	S028.3	S028.3
Viscosity @ 40°C, cSt	D445	9.56	20.27	31.96	45.26	70.13	96.29
Viscosity @ 100°C, cSt	D445	2.61	4.16	5.51	6.81	8.96	11.63
Viscosity Index	D2770	105	107	109	105	101	109
API Gravity at 60°F	D1250	38.2	34.6	32.8	31.7	30.6	31.3
Pour Point, °C	D5950	-54	-45	-39	-33	-36	-39
Color ASTM	D1500	L0.5	L0.5	L0.5	L0.5	L0.5	L0.5
Demulsibility	D1401	38-39-3, 13'	40-40-0, 10'	40-40-0, 10'	40-40-0, 17'	40-40-0, 10'	40-40-0, 5' (82°C)
Foam characteristics	D892	PASS	PASS	PASS	PASS	PASS	PASS
Oxidation Life, hrs. to TAN = 2.0, minimum	D943	4,700 <sup>4</sup>	5,000 <sup>4</sup>	7,000	7,000	7,000	6,000 <sup>4</sup>
Total Acid Number, mg KOH/g	D664	0.493	0.475	0.500	0.571	0.473	0.280
Air Release at 50°C, minutes, max.	DIN 51381/D3427	0:04	0:16	0:33	1:43	3:26	0:46
Copper Corrosion, 100°C, 3hr	D130	1b	1b	1b	1b	1b	1b

- 1) Value applies only to "point of manufacture".
- 2) Consult your owner's manual regarding its suitability for use in equipment from other OEMs. These hydraulics perform in most equipment without concern for fluid-related harm.
- 3) AW 10, 22 & 100 excluded from most of these
- 4) These values are extrapolations based on additive performance at other viscosities and Oxidation Stability test is currently ongoing

The recommended shelf life for these oils is typically 48 months from manufacturing date when stored properly in the original sealed containers.

D0280815

5009 WEST 81ST STREET | INDIANAPOLIS | INDIANA | 46268 | 800-829-8899 | FAX 317-875-0889

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes that the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.