



PREMIUM TURBINE AND CIRCULATING OILS

SPECIFICATIONS

- DIN 51515 p.1 (L-TD), p.2 (L-TG)
- MIL-L-17672D
- US Steel 120
- Siemens TLV 9013 04
- BS 489
- General Electric GEK 32568 A/C
- CEGB 207001
- Brown Boveri HTGD 90117
- Alsthom HTGD 90 117 V0001 S
- Westinghouse Electric Corp. Turbine Oil Spec

DESCRIPTION

Hydrol Named Lubricants are Zinc-Free turbine and circulating lubricants recognized for their high quality and reliability. They are formulated with highly refined base stocks and carefully selected additives that provide outstanding resistance to oxidation and chemical degradation over time. They designed for use in wide variety of industrial applications.

Hydrol Named Series has been developed to pass or exceed the most Turbine equipment builders' specifications.

FEATURES AND BENEFITS

Hydrol named Series is manufactured to the strictest quality standards with high base oils quality and selected additives. Key features and benefits of this turbine oils family are:

- Excellent oxidation stability: the product offers long life service under severe operating conditions minimizing the formation of corrosive acid, deposits and sludge.



- Excellent antifoam, antirust and anticorrosion properties ensuring high protection for equipments.
- High demulsibility, minimizing corrosion and premature wear.
- Excellent water seperability, resistance to foaming and air entrainment.
- Less unplanned downtime and reduced maintenance costs.

APPLICATIONS

The Hydrol Named lubricants are premium performance circulating lubricants designed for the following specific applications:

- Steam turbine, hydro turbine and some gas turbine circulation systems, including pumps, valves and other ancillary equipment.
- Moderate severity hydraulic pumps.
- Circulating systems exposed to moderately high temperatures and requiring long service life.
- Continuous service in some bearings and parallel shaft gearing.

TYPICAL PROPERTIES

	Test method	Hydrol Light	Hydrol Medium	Hydrol Heavy Medium	Hydrol Heavy
ISO VG		32	46	68	100
Density @15°C	ASTM D 445	33	41.5	64.5	100.4
Kinematic Viscosity at 40°C	ASTM D 445	6	6.4	8.9	11.46
Kinematic Viscosity at 100°C	ASTM D 2270	128	103	111	101
Viscosity Index	ASTM D 97	-15	< -12	< -12	< -12
Flash Point (COC)	ASTM D 92	>210	>210	>210	>210
Pour Point	ASTM D 4052	0.863	0.868	0.871	0.874



Test method	Unit	Hydrol Light	Hydrol Medium	Hydrol Heavy Medium	Hydrol Heavy
TOST (ASTM D943)	Heures	> 14000	> 3000	> 3000	> 3000
RBOT (ASTM D2272)	Minutes	1355	> 800	> 800	> 800
RBOT Modified (acc. To GEK-32568A) [48h/121°C/3 l N 2 per hour]		Pass	Pass	Pass	Pass
Life time	Minutes	1330			
Decrease of lifetime compared with unmodified test	%	-2%			
CIGRE (IP 280) [164h/120°C/ soluble Fe and Cu cat. / 1l O2 per hour]	%	0.05			
TOP (Total oxidation products)	%	0.04			
Precipitate (Sludge)	%				
Air release properties / 50°C (DIN 51589 p.1)	Minutes	3	R/A < 5	R/A < 5	R/A < 5
Water separation ability after steam treatment (DIN 51381)	s	130	140	180	
Demulsibility at 54°C (ASTM D1401)			R/A	R/A	R/A
Oil-water emulsion	ml	40-40-0	40-40-0	40-40-0	40-40-0
Separation time	Minutes	10	< 20	< 20	< 20
Foaming behaviour (ASTM D892)					
Sequence I 25°C			R/A	R/A	R/A
Sequence II 95°C	ml/ml	0/0	0/0	0/0	0/0
Sequence III 25°C	ml/ml	0/0	0/0	0/0	0/0
	ml/ml	0/0	0/0	0/0	0/0
Copper corrosion (ASTMD130)			R/A	R/A	R/A
3h / 100°C	Cotation	1a	1a	1a	1a
24h / 100°C	Cotation	1b – 2a	1b – 2a	1b – 2a	1b – 2a
Steel corrosion (ASTM D665) Procedure A (distilled water)			R/A	R/A	R/A
Procedure B (synthetic sea water)	Cotation	Pass 0	Pass 0	Pass 0	Pass 0
	Cotation	Pass 0	Pass 0	Pass 0	Pass 0
AW – Four Ball Test (DIN 51350, part 3; ASTM D4172)			R/A	R/A	R/A
Scar diameter [1500rpm /1h/ 300N]	mm	0.48	< 0,5	< 0,5	< 0,5
[1800rpm /1h/ 200N]	mm	0.37	< 0,4	< 0,4	< 0,4
FZG gear test A 8.3 / 90 (DIN 51354, part 2)			R/A	R/A	R/A
Damage – load stage	Cotation	10	> 10	> 10	> 10



Hydrol Named



HEALTH AND SAFETY

This product used as our recommendation for intended application not expected to produce any particular risk. A safety data sheet of this product is available for a simple request from your sales contact office or via internet. In case of used oil elimination, please respect the regulation and protect the environment.