GST Advantage EP

Industrial Gas and Steam Turbine Oils

Product description

GST Advantage EP are high performance oils formulated with VARTECH® Technology - an advanced chemistry combined with premium base oils designed to inhibit varnish formation and help maintain peak performance, reliability and productivity.

Customer benefits and product features

Customer benefits

- **Longer service life**
  Premium base oil technology in an ashless, zinc-free formulation helps provide oxidation stability and extended service life at elevated temperatures.
- **Helps minimize viscosity changes**
  High viscosity index helps reduce viscosity variation across a wide temperature range.
- **Quick air release formulation**
  Helps promote rapid air release, supporting reduced risk of pump cavitation in systems with high circulation rates and small reservoirs.
- **Foaming resistance**
  Helps resist foam formation, supporting consistent system operation and reducing the risk of reservoir overflow or erratic governor response.
- **Rapid water separation**
  Promotes efficient water separation to help reduce water retention in the oil.
- **Rust and corrosion protection**
  Helps protect system components against rust and corrosion..
- **Formulated for minimal sludge and varnish**
  Formulated to help reduce the formation of sludge and varnish.

Product features

- GST Advantage EP is suitable for use in geared and non-geared gas and steam turbines in systems operating at elevated temperatures where high thermal stability is required.
- GST Advantage EP turbine oil combines highly refined Group II base stocks with an advanced additive system designed to help minimize deposit formation in reservoirs, high-temperature bearings, and other critical turbine areas.

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Applications

- Geared and non-geared gas, steam and hydroelectric turbines
- Rotating machinery in gas and steam combined-cycle and co-generation units
- Air compressors, turbo-blowers and centrifugal pumps where rust and oxidation (R&O) inhibited oils are specified
- Marine reduction gears where R&O oils are specified
- Industrial applications requiring R&O-type circulating oils with extended service capability

Do not use in high pressure systems in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.

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Product approvals, performance and recommendations

GST ADVANTAGE EP	VG 32	VG 46	VG 68	VG 100
Ansaldo Energia AD00020487	A	A	-	-
Ansaldo Energia TGO2-0171-E00000	A	A	-	-
Doosan Skoda Power TP0010P	A	A	-	-
Everllence 10000494596	A	A	S	-
Siemens TLV 9013 04, TLV 9013 05	A	A	-	-
Avio TS 5001	M	-	-	-
Alstom NBA P50001A	M	M	-	-
Alstom NBA P50003A	M	-	-	-
Alstom HTGD 90117	M	M	M	-
Ansaldo Energia G-HTCT 689029	-	-	M	-
ANSI/AGMA 9005-E02-EP, 9005-F16 Antiscuff	M	M	-	-
ANSI/AGMA 9005-F16, 9005-E02 R&O	M	M	M	M
ASTM D4304 Type I, II	M	M	M	M
ASTM D4304 Type III	M	M	-	-
ASTM D6158-HL	M	M	M	-
British Standard 489	M	M	M	M
DIN 51515/1	M	M	M	M
DIN 51515/2	M	M	-	-
DIN 51524/1 HL	M	M	-	-
GE Oil & Gas ITN 52220.02	M	M	M	M

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Product approvals, performance and recommendations *cont…*

GST ADVANTAGE EP	VG 32	VG 46	VG 68	VG 100
GE Oil & Gas ITN 52220.03	M	M	-	-
General Electric (Alstom) HTGD 90117	M	M	M	-
General Electric GEK 101941A, 107395a, 107395c, 120498, 27070, 32568C-K, 32568M-P, 46506D, E	M	-	-	-
General Electric GEK 28143a	M	M	-	-
General Electric GEK 28143b	M	M	M	-
General Electric HTGD 90117 V0001 AC	-	-	M	-
ISO 8068 AR, B, L-TSA, L-TGA, L-TSE, L-TGE	M	M	M	-
ISO 8068 L-THA, L-THE	-	-	M	M
JIS K-2213 Type 2	M	M	M	-
MAG Cincinnati, Cincinnati Machine P-38	M	-	-	-
MAG Cincinnati, Cincinnati Machine P-54	-	-	M	-
MAG Cincinnati, Cincinnati Machine P-55	-	M	-	-
Siemens MAT 812101, 812106, 812108	M	-	-	-
Siemens MAT 812102, 812107, 812109	-	M	-	-
Siemens Westinghouse M Spec-55125Z3	M	-	-	-
Solar Turbine ES 9-224 Class II	M	M	-	-
Standardization Admin of PRC GB 11120-2011 L-TGE, L-TSA Type A, L-TSE Type A	M	M	M	-
Standardization Admin of PRC GB 11120-2011 L-TSA Type B	M	M	M	M
Toshiba LST-GMH-XUTW2-0005 Rev. 2	M	-	-	-

A: Approved
M: Meets the requirements
S: Suitable for use

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Typical test Data

GST ADVANTAGE EP	TEST METHODS	RESULTS			
ISO Grade		**32**	**46**	**68**	**100**
Product Code		**520034**	**520039**	**520095**	**520096**
Acid Number, mg KOH/g	ASTM D974	0.03	0.03	0.03	0.03
Air Release @ 50°C, mins	ASTM D3427	1.0	2.0	3.0	4.0
Flash Point, COC, °C	ASTM D92	226	234	248	262
Density, 15kg/L	ASTM D4052	0.859	0.865	0.87	0.875
TOST life, hrs to 2.0 Acid Num	ASTM D943	10,000	10,000	10,000	10,000
Oxidation Stability RPVOT, mins	ASTM D2272	2200	2100	1800	1700
Pour Point, °C	ASTM D97	-36	-34	-32	-32
Kinematic Viscosity,					
mm^2/s @ 40°C	ASTM D445	34.2	42.4	68	100
mm^2/s @ 100°C	ASTM D445	5.81	6.55	8.9	11.6
Viscosity Index	ASTM D2270	112	105	104	104
FZG, Fail Load Stage A/8.3/90	ASTM D5182	10	10	10	10

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Safety Data Sheet (SDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain an SDS for this product, visit the Product Information Center.

This Product Data Sheet (PDS) was produced for the Asia-Pacific region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

Customers should always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.