DOC NO	REV	ISSUED	CLASS
TDS-870	01	09/2026	Gear Oil · EP Synthetic

TECHNICAL DATA SHEET

JETTA 870 EP GEAR LUBRICANT

FZG PASS STAGES	TIMKIN OK LOAD	FOUR BALL WEAR SCAR
12	70 lbs	0.28 mm

DESCRIPTION

JETTA 870 is a revolutionary CTA (Compensatory Thermostat Action) gear oil that surpasses the API GL-5 AND GL-6 requirements. In general, even the best ordinary gear oils can barely attain the GL-4 (or at the very best GL-5) requirements, and very rarely can oils meet API GL-6 requirement.

EXTREME PRESSURE:

JETTA 870 is heavily-fortified with carefully-calibrated, extreme pressure-resistant supplements. Its additional supplements for corrosion resistance, oxidation resistance, water wash qualities and many others far outnumber those of most ordinary gear oils. The special extreme pressure supplements are designed to withstand such adverse performance conditions as:
Load Inductance Limited Radiation
Compression Displacement High Pressure Displacement
Impact Contact Migration Explosive Migration Shock
Surface Depolarization Implosive Fragmentation Impression
Capacitance Reverberation Thermal Conductivity Contact
Chaff

FRICTION MODIFICATION:

JETTA 870 contains a selection of friction modifiers. These supplements have been only recently developed and JETTA 870 is considered to be one of the very few gear additives to boast their usage.

VIBRATION RESISTANT:

JETTA 870 dramatically reduces the noise level in a gear system. This prevents scuffing, scoring, galling, pitting and

scraping. These major causes of noise (and wear) are largely eliminated and JETTA 870 promotes the near-silent running of gears of gearboxes.

OUTSTANDING SHEAR STABILITY:

Because of the severe shearing encountered in gear service, ordinary multigrade and extrarange multigrade gear oils can suffer from huge viscosity loss during service. The special blend of fully synthetic base fluids in JETTA 870 is designed to overcome this shortcoming. When tested according to the Volkswagen KRL test method, the viscosity drop is less than 5%

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LIMITED SLIP DIFFERENTIAL PERFORMANCE:

JETTA 870 performs perfectly well in limited slip differentials. In contrast, ordinary gear oils form a heavy energy-consuming drag and the oil migrates away from the friction area.

HYPOID GEAR APPLICATION:

JETTA 870 can be used in hypoid gears where the pinion gear is less than 25% of the crown wheel or where the pinion-and-crown-wheel has more than 2 inches (50mm) of offset. Ordinary gear oils, even those which can meet the API GL-4/5 requirements are unable to achieve this performance.

WATERPROOF:

JETTA 870 is completely water and waterwash resistant. It resists condensation and humidity, rain and other forms of water and moisture contact without thinning or contamination.

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APPLICATION:

Initial fill, top-up or refill of: (a) Automotive Transmissions (b) Hypoid differentials (especially limited slip type) (c) Industrial gearboxes

TYPICAL DATA:

TEST	ASTM	SAE 90	SAE 140	80W90	85W140	75W90	75W140
ISO Viscosity Grade	D-2422	150	320	150	320	100	220
Density Kg/L @ 15.0°C	D-1298	0.901	0.902	0.901	0.902	0.903	0.884
Viscosity, cSt @ 40°C	D-445	155	352	155	352	110	208
@100°C	D-445	15.3	27	15.3	27	15.2	27
Viscosity Index	D-2270	99	112	99	112	145	165
Flash Point, COC, °C (°F)	D-92	220 (428)	225 (437)	220 (428)	225 (437)	165 (329)	245 (473)
Fire Point, COC, °C (°F)	D-92	240 (464)	250 (482)	240 (464)	250 (482)	185 (365)	266 (511)
Pour Point, °C (°F)	D-97	-28 (-18)	-20 (-4)	-28 (-18)	-20 (-4)	-45 (-49)	-45 (-49)
Total Acid Number, mg KOH/g	D-974	3.6	3.6	3.6	3.6	3.6	3.6
Foaming Characteristics - All Sequences, After Settling	D-892	Nil	Nil	Nil	Nil	Nil	Nil
Copper Strip Corrosion 3 hrs. @ 100°C	D-130	1b	1b	1b	1b	1b	1b
Four Ball, Wear Scar Dia, mm	D-2266	0.28	0.28	0.28	0.28	0.28	0.28
Timkin, OK Load, lbs	D-2782	70	70	70	70	70	70
FZG, Pass Stages	FZG	12	12	12	12	12	12
Sulphur, % Mass*	D.129	2.18	2.48	2.18	2.48	2.48	2.48
Nitrogen, % Mass	Kjeldahl	0.08	0.08	0.08	0.08	0.08	0.08
Phosphorus, % Mass	D-1091	0.185	0.185	0.185	0.185	0.185	0.185

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