



The technical association
of the European lubricants
industry



The technical committee
of petroleum additive
manufacturers in Europe

ATIEL/ATC
Generic Exposure
Scenarios

Document 2: Lubricant Use Groups

Lubricant Use Groups by application.

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LUBRICANT APPLICATION		ATIEL-ATC LUBRICANT USE GROUP
Family	Specific application	
Engine oils	Passenger car (gasoline & diesel)	B
Engine oils	Diesel (transportation, public works, agriculture)	B
Engine oils	Marine - MDCL	B
Engine oils	Marine - TPEO	B
Engine oils	Marine - System oil	B
Engine oils	Railway	B
Engine oils	Motor bike (4-stroke)	B
Engine oils	Motor bike (2-stroke)	B
Engine oils	Marine 2-stroke / fuel additive	B
Engine oils	All terrain vehicles (ATV)	B
Engine oils	Snowmobiles	B
Engine oils	Personal Water Craft (PWC - e.g. JetSkis)	B
Engine oils	Outboard motor	B
Engine oils	Aviation (Civil)	B
Engine oils	Aviation (General, e.g. microlights, private planes)	B
Engine oils	Stationary gas engines	B
Engine oils	Multi-functional (Universal oil axel, gear and engine)	B
Transmission fluids	Manual (MTF)	B
Transmission fluids	Continuously variable transmission fluids (CVT)	B
Transmission fluids	Automatic transmission fluids (ATF)	B
Transmission fluids	Automatic transmission fluids (ATF) - 'sealed for life' applications.	B
Transmission fluids	Axle lubricants - cars	B
Transmission fluids	Axle lubricants - trucks	B
Transmission fluids	Automobile gear oils	B
Transmission fluids	Industrial gear oil (closed)	B
Transmission fluids	Industrial gear oil (open)	C

LUBRICANT APPLICATION		ATIEL-ATC LUBRICANT USE GROUP
Transport Greases	Bearings (closed)	B
Transport Greases	Universal joints	B
Transport Greases	Chassis lubrication (e.g. includes aviation, heavy goods vehicles)	C
Transport Greases	Forestry/public works/railways	B
Industrial greases	Bearings (open - with integral collection)	C
Industrial greases	Bearings (open - without integral collection)	C
Industrial greases	Bearings (closed - e.g. trucks, aviation)	B
Industrial greases	Gears	B
Industrial greases	Protection/tightness (wire rope, drilling tubes, etc)	C
Industrial oils (hydraulic, compressor, etc)	Turbine oils	B
Industrial oils (hydraulic, compressor, etc)	Steam turbine	B
Industrial oils (hydraulic, compressor, etc)	Gas turbine	B
Industrial oils (hydraulic, compressor, etc)	Water turbine	B
Industrial oils (hydraulic, compressor, etc)	Nuclear	B
Industrial oils (hydraulic, compressor, etc)	Circulating oils	B
Industrial oils (hydraulic, compressor, etc)	Paper Machine oils	B
Industrial oils (hydraulic, compressor, etc)	Compressor oils	B
Industrial oils (hydraulic, compressor, etc)	Air compressors	B
Industrial oils (hydraulic, compressor, etc)	Refrigeration	B
Industrial oils (hydraulic, compressor, etc)	Other gases – Ammonia, Natural Gas, Nitrogen	B
Industrial oils (hydraulic, compressor, etc)	Hydraulic fluids (general)	B
Industrial oils (hydraulic, compressor, etc)	Fire-resistant hydraulic fluids	B
Industrial oils (hydraulic, compressor, etc)	Brake fluids	B
Industrial oils (hydraulic, compressor, etc)	Shock-absorber fluids	B
Metalworking	Quenching fluids (oil based)	D
Metalworking	Quenching fluids (water based) - concentrate	E
Metalworking	Quenching fluids (water based) - diluted	D

LUBRICANT APPLICATION		ATIEL-ATC LUBRICANT USE GROUP
Metalworking	Non-soluble (i.e. straight/neat oil) machining/grinding fluids	F
Metalworking	Soluble oil machining/grinding fluids - concentrate	E
Metalworking	Soluble oil machining/grinding fluids - diluted	F
Metalworking	Semi-synthetic machining/grinding fluids - concentrate	E
Metalworking	Semi-synthetic machining/grinding fluids - diluted	F
Metalworking	Synthetic machining/grinding fluids - concentrate	E
Metalworking	Synthetic machining/grinding fluids - diluted	F
Metalworking	Corrosion protection - oil based	C
Metalworking	Corrosion protection - water based - concentrate	E
Metalworking	Corrosion protection - water based - diluted	C
Metalworking	Drawing and stamping fluids – straight oil, soluble (diluted), synthetic (diluted)	F
Metalworking	Broaching	F
Metalworking	Tapping and threading	F
Metalworking	Hobbing	F
Metalworking	Gear cutting and shaving	F
Metalworking	Reaming	F
Metalworking	Deep hole drilling	F
Metalworking	Milling	F
Metalworking	Drilling, Turning	F
Metalworking	Sawing	F
Metalworking	Honing	F
Metalworking	Forming (neat oil)	F
Metalworking	Forming (water dilutable)	F
Metalworking	Rolling (neat oil)	F
Metalworking	Rolling (water dilutable)	F
Metalworking	Prelubes	F
Metalworking	Dry lubes	F

LUBRICANT APPLICATION		ATIEL-ATC LUBRICANT USE GROUP
Metalworking	Washing and cleaning fluids (concentrate)	E
Metalworking	Washing and cleaning fluids (diluted)	C
Metalworking	Tank-side service additives	E
Metalworking	Slideway lubricants	C
Total loss lubrication	Chain saw oils	C
Total loss lubrication	Concrete-release agents	C
Total loss lubrication	Mould-release agents	C
Total loss lubrication	Anti-stick oil for asphalt / bitumen	C
Total loss lubrication	Glass release agents	D
Total loss lubrication	Air-tools (e.g. rock drills, pneumatic tools)	C
Total loss lubrication	Penetrating spray lubricants	C
Total loss lubrication	Chain / belt lubes (high energy - e.g. drive chains excluding chain saws)	C
Total loss lubrication	Chain / belt lubes (low energy - including garden equipment)	C
Total loss lubrication	Rail track lubricant	C
Other Industrial oils	Insulation of electrical equipment (including dielectric fluids)	B
Other Industrial oils	Transformers	B
Other Industrial oils	Impregnation of cables	C
Other Industrial oils	High voltage switchgear	B
Other Industrial oils	Heat-transfer oils htg & cool	B
Other Industrial oils	Textile oils	F
Other Industrial oils	Leather (not covered by Textile)	F
Other Industrial oils	Bearing oils (closed)	B
Other Industrial oils	Coatings	C
Other Industrial oils	Cleaning fluids (non-metalworking)	C

ATIEL-ATC Lubricant Applications Table			
Version	Date	Revised by	Comments
V20	25-May-09	Group	Draft
V21	02-Jul-09	Group	Original posting
V22	20-Oct-09	JB	Update from group review
V23	01-Feb-10	HH	Update from group review