

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

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

| | 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 | С | |
| Metalworking | Corrosion protection - water based - concentrate | E | |
| Metalworking | Corrosion protection - water based - diluted | С | |
| 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 | |

| L | ATIEL-ATC LUBRICANT USE GROUP | | |
|------------------------|---|---|--|
| Metalworking | Washing and cleaning fluids (concentrate) | E | |
| Metalworking | Washing and cleaning fluids (diluted) | С | |
| 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 | С | |
| 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) | С | |
| Total loss lubrication | Penetrating spray lubricants | С | |
| 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) | С | |
| Total loss lubrication | Rail track lubricant | С | |
| Other Industrial oils | Insulation of electrical equipment (including dielectric fluids) | В | |
| Other Industrial oils | Transformers | В | |
| Other Industrial oils | Impregnation of cables | С | |
| Other Industrial oils | High voltage switchgear | В | |
| Other Industrial oils | Heat-transfer oils htg & cool | В | |
| Other Industrial oils | Textile oils | F | |
| Other Industrial oils | Leather (not covered by Textile) | F | |
| Other Industrial oils | Bearing oils (closed) | В | |
| 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 | |
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