



HEAVY MACHINERY



**Sustainable lubricants for mobile machinery:
ENGINE, HYDRAULIC AND TRANSMISSION OILS,
COOLANTS AND GREASES.**

SUSTAINABLE EFFICIENCY STARTS WITH THE SYSTEM



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PERFORMANCE



RELIABILITY



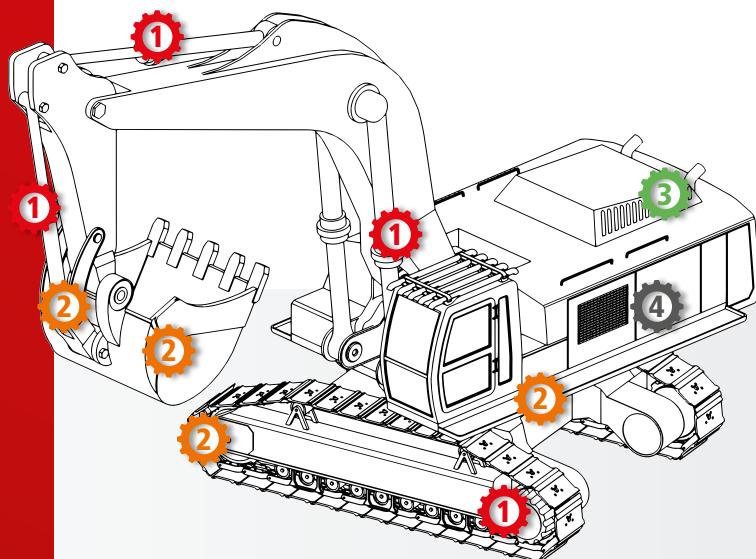
RESPONSIBILITY



OPERATIONAL
EFFICIENCY

MOBILE. POWERFUL.
READY FOR THE FUTURE.

BANTLEON's expertise covers the entire spectrum of lubrication technology support for commercial vehicles and machinery.



1 Hydraulic oils

3 Coolant

2 Greases / pastes

4 Engine / gearbox oil

HEAVY MACHINERY ENGINE OILS



ENGINE OILS. FOR A WIDE RANGE OF APPLICATIONS IN INDUSTRY AND COMMERCE.

Our range covers engine oils for vehicles with and without exhaust aftertreatment, diesel and petrol engines, commercial vehicles and off-road machinery, efficient 2-stroke and 4-stroke engines, and stationary engines such as gas engines.

BANTLEON engine oils meet almost all relevant OEM and manufacturer approvals and combine economy with reliability – for predictable use and trouble-free operation of your fleet.

- **Cost efficiency in operation**
optimised oil change intervals and less downtime
- **Wear reduction**
protects engine components and extends service life
- **Energy saving potential**
friction-optimised formulations reduce consumption
- **Sustainable performance**
high ageing stability reduces oil consumption and waste
- **Versatile application**
simplifies oil management in mixed fleets

Engine oils	Performance level	Extremely wide release range	TBN* (Total Base Number)	Low temperature use	High SAPS HS Low SAPS LS
AVIA HEAVYLINE LSP ULTRA 5W-30	Premium	x	< 12	x	LS
AVIA TURBOSYNTH LS PLUS 10W-40	Premium	x	< 12		LS
AVIA HEAVYLINE LSP TERA 5W-30	Plus	x	< 12	x	LS
AVIA HEAVYLINE MEGA 10W-40	Plus		> 12		HS
AVIA HEAVYLINE LSP ULTRA 10W-40	Plus		< 12		LS
AVIA HEAVYLINE LSP TERA-FE 5W-30	Standard		< 12	x	LS
AVIA MULTI LSP 15W-40	Standard		< 12		LS

* The TBN describes the ability of an engine oil to neutralize acidic combustion products. From a value of >12, "poor fuels" such as ship and harbor diesel, etc. or diesel with high sulfur contents can also be used. Diesel fuels according to EN 590 are low in sulfur.

HEAVY MACHINERY HYDRAULIC OILS



Dekra-PSR

HYDRAULIC OILS. STRONG IN USE, SAFE IN THE FUTURE.

In industry and commerce, performance, reliability and cost-effectiveness are key – combined with responsibility towards people, the environment and the surrounding area.

Our high-performance hydraulic oils based on PAO (polyalphaolefins) are modern low-friction oils, synthetic high-tech products and environmentally friendly solutions. Ash-free and biodegradable, they are suitable for use in construction, agriculture and forestry, handling, recycling, ski slope and rail vehicles, as well as locks, sewage treatment plants and weir systems.

- **Tested sustainability**
DEKRA-PSR certified
- **High operational readiness**
stable viscosity at all ambient temperatures
- **Broad product portfolio**
the right solution for all areas of application

Hydraulic oils	Performance level	Technology	DIN 51502/ DIN 51524-3	Wide temperature use (high VI index)	Extended change intervals	Use in environmentally sensitive areas	Low Energy potential
AVIA SYNTOFLUID PE-B	Premium	PAO/HEPR	HVLP(D)	x	x*	DEKRA PSR	x
AVIA SYNTOFLUID NSW	Premium	PAO/HEPR	-	x	x*	Swedish Standard SS 155434, DEKRA PSR	x
AVIA SYNTOFLUID EAL PLUS	Premium	PAO/HEPR	HVLP	x	x*	EU-Ecolabel	x
AVIA SYNTOFLUID BRO	Plus	Ester	-	x	x**	OECD 301B	
AVIA SYNTOFLUID K	Plus	Ester	-	x		EU-Ecolabel; Blauer Engel; SS Swedish Standard SS155434; NATO	
AVIA FLUID DYNA	Plus	Mineral oil	HVLP	x			x
AVIA FLUID HVR	Plus	Mineral oil	HVLP	x			
AVIA FLUID RSL PLUS	Plus	Mineral oil	HLP				
AVIA SYNTOFLUID F	Standard	Ester	-	x		EU-Ecolabel; Blauer Engel; Swedish Standard SS 155434	
AVIA FLUID HVD	Standard	Mineral oil	HVLP(D)	x			
AVIA FLUID HVI	Standard	Mineral oil	HVLP	x			
AVIA FLUID HLPD	Standard	Mineral oil	HLP(D)				
AVIA FLUID RSL	Standard	Mineral oil	HLP				

* Factor 2-4 with accompanying analysis

** Factor 2 with accompanying analysis

HEAVY MACHINERY GEAR OILS



GEAR OILS. FOR STATIONARY AND MOBILE SYSTEMS.

Whether you need a drive, small gearbox, or large gearbox, we offer the right solution for a wide range of requirements.

Our recommendations are based on the manufacturer's specifications and take into account the gearbox design, temperature range, environmental requirements and the machine manufacturer's specifications.

- **Tailored to requirements and OEM-compliant**
selection based on design, temperature range and operating environment
- **Wide operating temperature range**
constant viscosity and reliable start-up behaviour even in cold conditions
- **Suitable for year-round use**
less maintenance and downtime

Gear oils	Performance level	Technology	LS-Additive (Limited Slip)	UTTO / TDTO	Wide temperature use (high VI-Index)	Extended change intervals
Axle gear						
AVIA POWERTRAIN PREMIUM GAX 75W-90	Premium	PAO (polyalphaolefins)			x	x
AVIA POWERTRAIN AX-LS 85W-90	Plus	Mineral oil	x			
AVIA POWERTRAIN AX 85W-140	Standard	Mineral oil				
AVIA POWERTRAIN AX 85W-90	Standard	Mineral oil				
Industrial gear						
AVIA GEAR VSG	Premium	Glycol			x	x
AVIA SYNTOGEAR PE	Premium	PAO (polyalphaolefins)			x	x
AVIA GEAR RSX-F	Plus	Mineral oil				
Tractor oil						
AVIA POWERTRAIN UTTO-F	Premium	Mineral oil	x	UTTO		x
AVIA POWERTRAIN UTTO-DLZ	Plus	Mineral oil	x	UTTO		
AVIA GEAR ALCAT	Standard	Mineral oil	x	TDTO		
Automatic transmission						
AVIA POWERTRAIN PREMIUM D-VI	Premium	PAO (polyalphaolefins)	x		x	x
AVIA POWERTRAIN AT-D III	Plus	Mineral oil	x		x	
AVIA POWERTRAIN AT-D II	Standard	Mineral oil	x		x	

HEAVY MACHINERY COOLANT



COOLANT. RELIABLE IN ALL AREAS OF APPLICATION.

Cooling and heating systems must transport thermal energy efficiently while protecting against high temperatures. Special additives tailored to the cooling systems of car manufacturers offer protection against frost, cavitation, corrosion, premature boiling and deposits.

In engines, rapid heat transfer is essential to prevent overheating. Heating and cooling systems, on the other hand, ensure that heat reaches its destination with minimal losses. BANTLEON coolants are durable and have proven themselves in almost all areas of application: e.g. in recycling, snow grooming and rail vehicles, as well as in lock, wastewater treatment and weir systems.

- **Manufacturer-approved additive technology**
optimal protection against frost, corrosion and deposits
- **High system reliability**
stable operation in engines, heating and cooling systems
- **Durability**
long-lasting effectiveness, reduces maintenance and follow-up costs

Radiator protection fluids	Technology	Ready-to-use mixture	Extended change intervals
AVIA Coolant APN-S	Silicate free OAT		x
AVIA Antifreeze NG	Contains silicate Si-OAT		x
AVILUB Antifreeze NG -37°C	Contains silicate Si-OAT	x	x
AVIA Coolant APN-S Mix	Silicate free OAT	x	x

HEAVY MACHINERY GREASES



GREASES.

READY FOR USE UNDER THE TOUGHEST CONDITIONS.

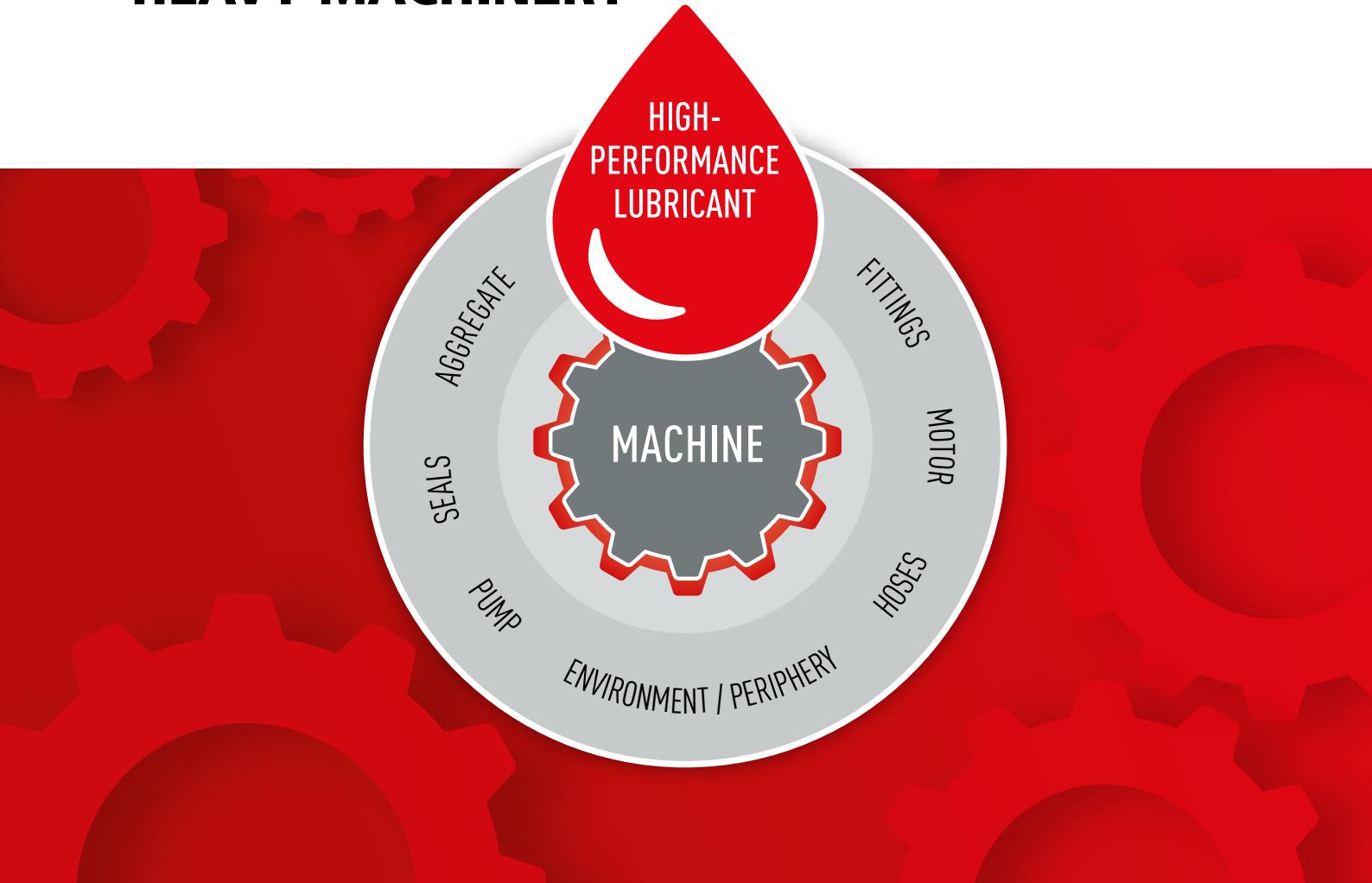
High loads and pressures, extreme environmental conditions and wide temperature ranges with long relubrication intervals require high-performance greases. Our broad portfolio enables the targeted selection for every application – from long-term lubrication to lubrication for the lifetime of the component.

BANTLEON lubricating greases ensure reliable operation, especially in extreme applications such as alpine regions, the cement industry, agriculture and forestry, or in construction, handling and recycling machinery.

- **Precisely tailored product selection**
wide portfolio for specific application requirements
- **Reliable long-term lubrication**
also suitable for lifetime lubrication
- **Maximum load capacity**
proven in extreme temperatures and harsh environments

Greases	Performance level	Multipurpose character	Extreme operating conditions	Biodegradable	High water resistance	Special applications
AVIA ALUPLEX RHS FLUID	Premium		x			
AVIA PROGREASE LX 2 HT	Premium	x	x			
AVILUB SPEZIALFETT LDW	Plus	x	x		x	
AVIA PROGREASE CA 2 EP		x			x	
AVIA SYNTOGREASE 2	Plus	x		x		
AVIA PROGREASE L 2 EP	Standard	x				
AVILUB LDS SPRUEHFETT	Standard	x			x	
Pastes						
AVIA Meisselpaste	Standard					x

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STARTS WITH THE SYSTEM!"**

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