TECHNICAL DATA SHEET

Max-Cycle® High-performance motorcycle & ATV engine Oil

Product Description

Royal Purple® Max-Cycle® is engineered to deliver uncompromising performance and protection for 4-cycle motorcycles, ATVs, and personal watercraft. Blending premium synthetic base oils with advanced additive chemistry and our proprietary Synerlec® technology, Max-Cycle® provides exceptional thermal stability, maximizes power output, and safeguards critical engine components under the most demanding conditions. Designed for outstanding gearbox durability, Max-Cycle® is fully optimized for wet-clutch applications—ensuring consistent engagement, confident clutch feel, and smooth, reliable operation. It surpasses manufacturers' warranty requirements for both air-cooled and liquid-cooled engines and meets requirements of JASO MA2* and API SP performance standards*.

Choose Max-Cycle® for riders who demand the pinnacle of protection, performance, and confidence.

FEATURES AND BENEFITS

- SUPERIOR ENGINE WEAR PROTECTION – Industry leading anti-wear performance: Sequence IVA
- IMPROVED POWER & CONTROL – Maximize engine power and provide superior clutch performance & shifting: JASO T903:2023
- TRANSMISSION DURABILITY – Formulated with industry leading gear wear protection for severe duty applications: CEC L-07 FZG
- DEPOSIT CONTROL – Robust detergents remove power robbing deposits to maximize performance & efficiency: Sequence IIIF
- MULTI-FUNCTIONAL FLUID – One oil chemistry to lubricate the engine, clutch, and gears

SPECIFICATIONS AND APPROVALS

	JASO MA2: 2023	API SP
Max Cycle 10W-40	X*	X*
Max Cycle 20W-50	X*	X*

* Meets requirements / Suitable for use

PRODUCT DATA

Typical Properties			
Property	**Test Method**	**MAX CYCLE 10W-40**	**MAX CYCLE 20W-50**
KV40, cSt	ASTM D445	91.21	142.2
KV100, cSt	ASTM D445	13.81	19.16
Viscosity Index	ASTM D2270	154	153
Cold Crank Simulator, cP	ASTM D5293	4588 @ -25C	4521 @ -15C
TBN, mg KOH	ASTM D2896	7.2	7.2
Density @ 15C, g/mL	ASTM D4053	0.8493	0.8606
Pour Point, C	ASTM D97	-48	-30
Flash Point, F	ASTM D92	480	504

Distributed By:
Calumet Branded Products, LLC
1060 N Capitol Ave
Suite 6-401
Indianapolis, IN 46204
Technical Services: 888-382-6300
www.royalpurple.com

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