



**PREMIUM
LUBRICANTS**

RECREATIONAL ENGINE OIL

Co-op provides a comprehensive portfolio of high-performing, two-stroke injection recreational engine oils. Designed for use in either DFI (Direct Fuel Injection), EFI (Electronic Fuel Injection), pre-mix and carbureted engine applications. These products provide protection against corrosion, contain a low-ash engine oil formulation designed for engine cleanliness and are designed to perform in varying temperature ranges.

TECHNICAL DATA SHEETS

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SONIC® DYNAMIX PLUS®

SYNTHETIC BLEND UNIVERSAL TWO-CYCLE ENGINE OIL

PRODUCT DESCRIPTION

SONIC® DYNAMIX PLUS® is a high-quality synthetic blend universal two-cycle engine oil. The premium ashless formula provides exceptional lubricity, to reduce engine wear and extend engine life. It's advanced formula is an exceptional choice for both direct injection and pre-mix engines.

PERFORMANCE FEATURES

- High temperature oxidation control
- Extended engine life
- Reduced engine deposits
- Controls piston and cylinder scuffing
- Excellent rust and corrosion protection
- Improved light throttle operation
- Balanced formula reduces exhaust smoke

APPLICATIONS

SONIC DYNAMIX PLUS® is recommended for two-cycle outboard engines, personal watercraft, ATV's, low output chainsaws, weed trimmers and leaf blowers. It works in most water-cooled and air-cooled applications and is designed to meet the high performance requirements of major outboard engine manufacturers including Mercury, Mariner, Johnson, Evinrude, Yamaha and Suzuki.

**Do not use in Orbital or Ficht designed engines.*

TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

PROPERTIES	TEST METHODS	SONIC® DYNAMIX PLUS®
Kinematic Viscosity cSt @ 40°C	ASTM D445	43.9
Kinematic Viscosity cSt @ 100°C	ASTM D445	8.1
Viscosity Index	ASTM D2270	160
Pour Point, °C	ASTM D97	-45°
Brookfield Viscosity cP @ -25°C	ASTM D2983	3,439

SONIC® DYNAMIX PLUS®

SYNTHETIC BLEND UNIVERSAL TWO-CYCLE ENGINE OIL

PERFORMANCE SPECIFICATIONS

In the appropriate grade, SONIC® DYNAMIX PLUS® is approved and/or recommended for use in the following:

INDUSTRY / OEM	SONIC® DYNAMIX PLUS® SPECIFICATIONS
API	TC
JASO	FB
NMMA	TC-W3 / TC-WII™ / TC-W™

SAFETY DATA SHEETS

Product-specific safety data sheets (SDS) can be obtained by contacting your local retail Co-op or Federated Co-operatives Limited (see contact information below) or by going online at www.fuel.crs.

PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail Co-op for further details.

PRODUCT SIZES	SONIC® DYNAMIX PLUS®
1 L Bottle	✓
5 L Bottle	✓
10 L Bottle	
20 L Pail	
110 L Drum	
205 L Drum	
1000 L Tote	

RECYCLING OF USED LUBRICANTS AND CONTAINERS

Please protect the environment when disposing of petroleum products. All products should be taken to an authorized collection facility or picked up by a qualified organization. This ensures the products will be disposed of in an environmentally sensitive manner. For additional information on used-oil recycling programs, please see the following:

- Saskatchewan – www.usedoilrecyclingsk.com
- Alberta – www.usedoilrecyclingab.com
- British Columbia – www.bcusedoil.com
- Manitoba – www.usedoilrecycling.com/en/mb

CONTACT INFO

For more information on this or any other CO-OP® lubricant product, please contact your local retail co-operative or Federated Co-operatives Limited.

petroadmin@fcL.crs • www.fuel.crs • www.agro.crs

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PREMIUM
LUBRICANTS



XL-S SYNTHETIC BLEND

2-STROKE INJECTION ENGINE OIL

PRODUCT DESCRIPTION

XL-S SYNTHETIC BLEND Recreational Engine Oil is an advanced 2-Stroke Injection engine oil for use in DFI (Direct Fuel Injection), EFI (Electronic Fuel Injection), pre-mix and carbureted engines. XL-S SYNTHETIC BLEND provides protection against corrosion, contains a low-ash engine oil formulation designed for engine cleanliness to perform in a wide variety of temperature ranges. XL-S is recommended and backed by Federated Co-operatives Limited Oil Guarantee for selected OEM specifications: API TC, ISO L-EGC/L-EGD, JASO FC/FD.

PERFORMANCE FEATURES

- Superior protection of exhaust power valves
- Low-ash engine oil formulated for low smoke
- Increased engine life
- Emissions reductions
- Anti-piston scuffing performance
- Ring stick protection
- Improved engine cleanliness
- Corrosion protection
- Superior low temperature performance
- Prevention against combustion chamber deposits

APPLICATIONS

XL-S SYNTHETIC BLEND designed for use in DFI (Direct Fuel Injection), EFI (Electronic Fuel Injection), pre-mix and carbureted engines. An excellent choice for 2-stroke high-performance model snowmobiles, PWC (personal watercraft), ATV (all-terrain vehicles) and motorcross bikes.

TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

PROPERTIES	TEST METHODS	XL-S SYNTHETIC BLEND
Kinematic Viscosity cSt @ 40°C	ASTM D445	44.6
Kinematic Viscosity cSt @ 100°C	ASTM D445	8.1
Viscosity Index	ASTM D2270	157
Pour Point, °C	ASTM D97	-57°

XL-S SYNTHETIC BLEND

2-STROKE INJECTION ENGINE OIL

PERFORMANCE SPECIFICATIONS

In the appropriate grade, XL-S SYNTHETIC BLEND is recommended and backed by Federated Co-operatives Limited for use in the following applications:

INDUSTRY / OEM	SPECIFICATIONS
API	TC
ISO	L-EGC
	L-EGD
JASO	FC
	FD

SAFETY DATA SHEETS

Product-specific safety data sheets (SDS) can be obtained by contacting your local Co-op or Federated Co-operatives Limited (see information below) or online at www.fuel.crs.

PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail Co-op for further details.

PRODUCT SIZES	XL-S SYNTHETIC BLEND
1 L Bottle	✓
5 L Bottle	✓

RECYCLING OF USED LUBRICANTS AND CONTAINERS

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- Saskatchewan – www.usedoilrecyclingsk.com
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SONIC[®] 4-STROKE SL

SYNTHETIC POWER SPORT ENGINE OIL

PRODUCT DESCRIPTION

SONIC[®] 4-STROKE SL is a premium, full-synthetic 4-stroke motor oil. It is designed specifically for non-automotive, high-output/high RPM power-sport motors. SONIC[®] 4-STROKE SL combines a unique blend of fully synthetic polyalphaolefin (PAO) base oils and industry-leading additives. This combination ensures a superior level of protection in applications that can produce RPM levels near double that of their automotive counterparts.

PERFORMANCE FEATURES

- 100% synthetic formulation
- Wet clutch compatible
- Superior operating range -35°C to 35°C
- Hyper ZDDP technology provides wear protection and catalyst life
- Improved engine cleanliness
- Exceptional corrosion protection

APPLICATIONS

SONIC[®] 4-STROKE SL is engineered to withstand the punishment endured by high performance engines in snowmobiles, ATVs, motorcycles and outboard motors. This product is also suitable for 4-stroke snow throwers, generators, lawn mowers and garden tractors.

** This product does not contain friction modifiers. Most non-automotive/power sport applications require lubricants manufactured in this manner.*

TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

PROPERTIES	TEST METHODS	SAE 5W-50
Kinematic Viscosity cSt @ 40°C	ASTM D445	99.8
Kinematic Viscosity cSt @ 100°C	ASTM D445	16.5
Viscosity Index	ASTM D2270	175
Pour Point, °C	ASTM D97	-60°

SONIC[®] 4-STROKE SL

SYNTHETIC POWER SPORT ENGINE OIL

PERFORMANCE SPECIFICATIONS

SONIC[®] 4-STROKE SL meets or exceeds OEM engine oil warranty requirements in applications calling for the following:

INDUSTRY/OEM	SONIC [®] 4-STROKE SL SPECIFICATIONS
API	SM
JASO	MA
NMMA	FC-W
	FC-W Catalyst Compatible

SAFETY DATA SHEETS

Product-specific safety data sheets (SDS) can be obtained by contacting your local retail Co-op or Federated Co-operatives Limited (see contact information below) or by going online at www.fuel.crs.

PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail Co-op for further details.

PRODUCT SIZES	5W-50
1 L Bottle	✓
5 L Bottle	
10 L Bottle	
20 L Pail	
110 L Drum	
205 L Drum	
1000 L Tote	

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SONIC® TWO-CYCLE

TWO-CYCLE ENGINE OIL

PRODUCT DESCRIPTION

SONIC® TWO-CYCLE ENGINE OIL is a high-quality, multi-purpose two-cycle engine oil recommended for both air- and water-cooled two-stroke engines. It is designed for both pre-mix and direct-injection applications. SONIC® TWO-CYCLE ENGINE OIL has been formulated to meet a variety of manufacturers' low-ash requirements.

PERFORMANCE FEATURES

- Minimizes ring sticking and spark plug fouling
- Protects against rust, corrosion and exhaust system deposits
- Pre-diluted for easier mixing at all temperatures
- Prevents piston scuffing
- Eliminates pre-ignition
- Qualified TC and low ash

APPLICATIONS

SONIC® TWO-CYCLE ENGINE OIL is recommended for two-cycle engines requiring a fuel/oil ratio of 50:1 or less and a NMMA low-ash formulation. SONIC® TWO-CYCLE ENGINE OIL can be used in chainsaws, lawn mowers, snow throwers and utility motors that require a two-stroke engine oil. In all cases, the manufacturer's recommendations should be consulted.

**Do not use this product in equipment that calls for a synthetic two-cycle engine oil.*

TECHNICAL PROPERTIES

The values listed below are typical of current production. As variations may occur, these numbers do not constitute a specification.

PROPERTIES	TEST METHODS	SONIC® TWO-CYCLE ENGINE OIL
Kinematic Viscosity cSt @ 40°C	ASTM D445	30.7
Kinematic Viscosity cSt @ 100°C	ASTM D445	5.8
Viscosity Index	ASTM D2270	134
Pour Point, °C	ASTM D97	-51°

SONIC[®] TWO-CYCLE

TWO-CYCLE ENGINE OIL

PERFORMANCE SPECIFICATIONS

SONIC[®] TWO-CYCLE ENGINE OIL is approved and/or recommended for use in the following:

INDUSTRY / OEM	SONIC [®] TWO-CYCLE SPECIFICATIONS
API	TC
ISO	L-EGC
	L-EGD
JASO	FC
	FD

PRODUCT SELECTION

Product availability can vary by location. Please contact your local retail Co-op for further details.

PRODUCT SIZES	SONIC [®] TWO-CYCLE
1 L Bottle	✓
5 L Bottle	
10 L Bottle	
20 L Pail	
110 L Drum	
205 L Drum	
1000 L Tote	

MIXING TABLE

This table shows the amount of oil that must be added to obtain the gasoline to oil ratio (1 L = 1000 mL).

GASOLINE TO OIL RATIO	5 L	10 L	15 L	20 L	25 L
16:1	300 mL	600 mL	900 mL	1.2 L	1.5 L
25:1	200 mL	400 mL	600 mL	800 mL	1.0 L
32:1	150 mL	300 mL	450 mL	600 mL	750 mL
40:1	125 mL	250 mL	375 mL	500 mL	625 mL

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