



Plant/Tilt Mixer Recommended Oils

Air Compressor

All Seasons T30 – Non-Detergent Ingersoll-Rand Oil

Gear Reducers

Phillips 66 – 80/90 Weight Gear Oil

Lubricators

Phillips 66 10 Weight Non-Detergent Hydraulic Oil

Reclaim Blowers

Phillips 66 40 Weight Non-Detergent

Mixer Ring Gear-Auto Oiler

Phillips 66 80/90 Weight Gear Oil

Mixer Auburn Reducers

Phillips 66 80/90 Weight Gear Oil

Mixer Hydraulics

Power Train Sunco TH Fluid

Grease

Mobile Grease XHP 221



SOLID PRODUCTS. SOLID PERFORMANCE.
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INGERSOLL-RAND
AIR COMPRESSORS

Ingersoll-Rand Company
Reciprocating Compressor Division
Small Compressor Business Unit
Campbellsville, KY 42718

**Supplement
For
Compressor Lubrication
(All Season T30 Select® Synthetic Lubricant)**

NOTICE

Synthetic lubricants such as All Season T30 Select have a detergent action and may dissolve or break loose existing deposits in used compressors and compressed air systems.

You must be certain that the downstream components of your compressed air system will not be damaged by the action of this lubricant, as this lubricant is not compatible with certain materials.

Please refer to the material compatibility table.

If there are any materials present downstream in your compressed air system that are not included in the material compatibility table, we urge you to contact your local Ingersoll-Rand distributor for information.

DESCRIPTION

All Season T30 Select is an all-temperature diester synthetic lubricant. The benefits of All Season T30 Select are as follows:

- 1). Reduces wear and eliminates much of the carbon build-up found when some petroleum-based lubricants are used. This elimination increases compressor efficiency and significantly decreases maintenance and downtime.
- 2). All-temperature blend provides more consistent viscosity and protection in high and low operating temperatures.
- 3). Faster splash lubrication to moving parts and less cranking resistance at operating temperatures below 40°F (4.4°C).
- 4). May be used reliably in operating temperatures that are consistently below 30°F (-1.1°C).

APPLICATION

All Season T30 Select is recommended for Type 30 standard and high pressure reciprocating air compressors. It is not recommended for aluminum units, vacuum pumps, CNG units or non-lube units.

CRANKCASE HEATERS

While providing exceptional lubrication at normal and high operating temperatures, All Season T30 Select is formulated to be used in low operating temperatures as well. Depending on model and prevailing voltage conditions, some compressors may require the occasional use of crankcase heaters in operating temperatures below 30°F (-1.1°C). If your compressor has difficulty starting in

temperatures below 30°F (-1.1°C), a crankcase heater may be required. Contact your nearest Ingersoll-Rand Full Service Distributor for more details.

WARRANTY

A two-year warranty is available for Type 30 two stage cast iron bare compressor pumps that run solely on All Season T30 Select from start-up through an entire two-year period. Models 2340, 2475, 2545, 7100, 15T and 3000 that are operated solely on All Season T30 Select brand synthetic lubricant will have their bare compressor pump warranted for a period of twenty-four (24) months from the date of initial operation or thirty (30) months from the date of shipment, whichever shall occur first.

The extended warranty applies only to Type 30 two stage cast iron bare compressor pumps. Motors, receivers and any other package components do not qualify for extended warranty.

The extended warranty does not apply to Type 30 single stage models, high pressure models or 6R models.

NOTE: Proof of All Season T30 Select purchase may be required with warranty claim.

ALTERNATE LUBRICANTS

WARNING



Fire or explosion hazard!

Do not use alternate lubricants that fail to meet minimum flashpoint and auto-ignition temperature requirements.



Use of improper lubricants result in coking (carbon deposits) which can block heat exchangers, discharge lines, compressor valves, safety/relief valves and control lines and result in a fire or explosion which can cause severe injury or death.

Certain petroleum-based lubricants may be used in most Type-30 model compressors provided they are premium-quality, non-detergent lubricants containing only rust, oxidation, and anti-foaming inhibitors. Substitute lubricants must have a flashpoint of 440°F (227°C) or higher and an auto-ignition point of 650°F (343°C) or higher.

BREAK-IN PROCEDURES

NOTE: These break-in instructions apply only to Type 30 single and two stage cast iron air compressor models. High pressure and 6R models require a 100-hour break-in with petroleum-based lubricant only.

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- 1). Fill the crankcase with All Season T30 Select. Refer to your instruction manual for crankcase capacity.
- 2). On used compressors that have been converted to All Season T30 Select, operate the compressor for approximately 200 hours, then inspect. If necessary, clean the compressor inlet and discharge valves.

COLD WEATHER STARTING

When using All Season T30 Select in temperatures below 30°F (-1.1°C), always follow these starting procedures.

- 1). Release all pressure from receiver and all associated tubing and components. Pull the rings on all relief valves.
- 2). Start the compressor.
- 3). If compressor has difficulty starting, crankcase heaters may be required.

NOTICE

Used compressors must be decarbonized before converting to All Season T30 Select.

For revised valve maintenance and lubricant change intervals, refer to the routine maintenance table.

Table 1. All Season T30 Select Material Compatibility.

Suitable	Not Recommended
Viton®	Neoprene
Teflon®	Natural Rubber
Epoxy (Glass Filled)	SBR Rubber
Oil Resistant Alkyd	Acrylic Paint
Fluorosilicone	Lacquer
Fluorocarbon	Varnish
Polysulfide	Polystyrene
2-Component Urethane	PVC
Nylon	ABS
Delrin®	Polycarbonate
Celcon®	Cellulose Acetate
High Nitrile Rubber (Buna N. NBR more than 36% Acrylonitrile)	Low Nitrile Rubber (Buna N. NBR less than 36% Acrylonitrile)
Polyurethane	EPDM
Polyethylene	Ethylene Vinyl Acetate
Epichlorohydrin	Latex
Polyacrylate	EPR
Meiamine	Acrylics
Polypropylene	Phenoxy
Baked Phenolics	Polysulfones
Epoxy	Styrene Acrylonitrile (San)
Modified Alkyds	Butyl
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Table 2. Routine Maintenance Schedule with use of All Season T30 Select.

Model	Procedure (performed with air inlet filter change)
Type 30 single and two stage cast iron air compressor models	2000 hours / 1 year lubricant change and valve inspection (cleaning)
NL (non-lube) models	Synthetic not approved (Use petroleum-based lubricant such as XL-300)
Vacuum pump models	Synthetic not approved (Use petroleum-based lubricant such as XL-300)
High pressure models *	1500 hours / 1 year oil change and valve inspection (decarboning)
6R models *	100 hours / 6 months oil change and 1500 hours / 1 year valve inspection (decarboning)

* - 100-hour break-in with petroleum-based lubricant required.



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Dodge Bearings

S-2000 SPHERICAL ROLLER BEARINGS SC & SCM BEARING TAF PILLOW BLOCK BEARINGS TYPE "E" BEARINGS 1 3/16" TO 5"

LUBRICATION INSTRUCTIONS OPERATION IN PRESENCE OF DUST, WATER OR CORROSION VAPORS

This bearing is factory lubricated with No. 2 consistency Lithium complex base grease which is suitable for most applications. However, extra protection is necessary if bearing is subjected to excessive moisture, dust, or corrosive vapor. In these cases, bearing should contain as much grease as speed will permit (a full bearing with consequent slight leakage through the seal is the best protection against contaminant entry).



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Motor Lubrication

WEG MOTORS

LUBRICATION

Motors made up to frame 160 are not fitted with grease fitting, while larger frames up to frame 200 this device is optional. For frame 225 to 355 grease fitting is supplied as standard. Proper Lubrication extends bearing life.

Lubrication Maintenance Includes:

- a) Attention to the overall state of the bearings;
- b) Cleaning and lubrication;
- c) Careful inspection of the bearings.

Bearing temperature control is also part of routine maintenance. The temperature of bearings lubricated with suitable grease as recommended not exceed 70°C. WEG motors are normally equipped with grease lubricated ball or roller bearings. Bearings should be lubricated to avoid the metallic contact of the moving parts, and also for protection against corrosion and wear.

LUBRICATION INTERVALS

When a motor is fitted with a lubrication instructions plate, these instructions must be followed. For an efficient initial bearing lubrication, the motor manual or the Lubrication Table must be followed. If this information is not available, the bearing must be greased up to its half (only the empty space between the moving parts).

QUALITY AND QUANTITY OF GREASE

Correct lubrication is important! Grease must be applied correctly and in sufficient quantity as both, insufficient or excessive greasing are harmful. A lithium based grease is commonly used for the lubrication of electric motor bearings as it has good mechanical stability, insoluble in water. This grease should never be mixed with different base greases.

LUBRICATION INSTRUCTIONS

Inject about half the estimated amount of grease and run the motor at full speed for approximately a minute; switch off the motor and inject the remaining grease. Use only a manual grease gun.

BEARING LUBRICATION STEPS

1. Clean the area around the grease nipples with clean cotton fabric.
2. With the motor running, add grease with a manual grease gun until the quantity of grease recommended in Tables 9 or 10 has been applied.
3. Allow the motor to run long enough to eject all excess of grease.



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Dodge TAll Speed Reducers

Table 3 – Oil Recommendations

Output RPM	ISO Grades For Ambient Temperatures of 50°F to 125°F *											
	TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H	TA8407H	TA9415H	TA10507H	TA12608H
301 – 400	320	320	320	220	220	220	220	220	220	220	220	220
201 – 300	320	320	320	220	220	220	220	220	220	220	220	220
151 – 200	320	320	320	220	220	220	220	220	220	220	220	220
126 – 150	320	320	320	220	220	220	220	220	220	220	220	220
101 – 125	320	320	320	320	220	220	220	220	220	220	220	220
81 – 100	320	320	320	320	320	220	220	220	220	220	220	220
41 – 80	320	320	320	320	320	220	220	220	220	220	220	220
11 – 40	320	320	320	320	320	320	320	320	320	320	220	220
1 – 10	320	320	320	320	320	320	320	320	320	320	320	320

Output RPM	ISO Grades For Ambient Temperatures of 15°F to 60°F *											
	TA0107L	TA1107H	TA2115H	TA3203H	TA4207H	TA5215H	TA6307H	TA7315H	TA8407H	TA9415H	TA10507H	TA12608H
301 – 400	220	220	220	150	150	150	150	150	150	150	150	150
201 – 300	220	220	220	150	150	150	150	150	150	150	150	150
151 – 200	220	220	220	150	150	150	150	150	150	150	150	150
126 – 150	220	220	220	150	150	150	150	150	150	150	150	150
101 – 125	220	220	220	220	150	150	150	150	150	150	150	150
81 – 100	220	220	220	220	220	150	150	150	150	150	150	150
41 – 80	220	220	220	220	220	150	150	150	150	150	150	150
11 – 40	220	220	220	220	220	220	220	220	220	220	150	150
1 – 10	220	220	220	220	220	220	220	220	220	220	220	220

* Notes:

1. Assumes auxiliary cooling where recommended in the catalog.
2. Pour point of lubricant selected should be at least 10°F lower than expected minimum ambient starting temperature.
3. Extreme pressure (EP) lubricants are not necessary for average operating conditions. When properly selected for specific applications, TORQUE-ARM II backstops are suitable for use with EP lubricants.
4. Special lubricants may be required for food and drug industry applications where contact with the product being manufactured may occur. Consult a lubrication manufacturer's representative for his recommendations.
5. For reducers operating in ambient temperatures between -22°F (-30°C) and 20°F (-6.6°C) use a synthetic hydrocarbon lubricant, 100 ISO grade or AGMA 3 grade (for example, Mobil SHC627). Above 125°F (51°C), consult DODGE Gear Application Engineering (864) 288-9050 for lubrication recommendation.
6. Mobil SHC630 Series oil is recommended for high ambient temperatures.



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Mac Valve Lubricants

Subject: VALVE LUBRICANTS #19-92

The list of oils below is provided for reference when asked what are suitable for the customer's application. If given a choice, this list should help avoid potential problems down the road. The information is provided as the result of lab testing and a great deal of field experience. The oil should have an aniline point in the 180-210 range and viscosity of 150 to 200 seconds at 100 (S.A.E. NO. 10).

The following oils without additives are satisfactory:

MANUFACTURER	OIL NUMBER
NFO	NFO 10 H/NR
NFO	NFO 10 W/NR
CHEVRON	AW 10 MACHINE OIL
CHEVRON	HANDY OIL-15
EXXON	TERESSTIC 32
MOBIL	MOBIL DIE LIGHT
MOBIL	DEXTRON II ATF
MOBIL	ATF 210 TYPE F
MOBIL	DTE 13M
MOBIL	ALMO 525
MOBIL	MIST LUBE 24
MOBIL	DTE 24
MOBIL	HYDRAULIC OIL 13
MOBIL	HYDRAULIC OIL AW 32
WOLVERINE	A-INDUSTRIAL 150 R&O
TITAN	TYPE F ATF
TITAN	DEXTRON II ATF
AMERICAN	INDUSTRIAL OIL – 32

During cold weather operation it is recommended Dexron ATF or Sierra Antifreeze is used as a lubricant. When changing lubricant, the change in the viscosity of the lubricant typically requires the output of the lubricator to be adjusted.

The use of kerosene, animal or vegetable fats should be avoided for additives or cleaning agents. Also, the use of any penetrates such, as WD 40 should NEVER be used on any rubber seals.



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Recycle (Reclaim) Blowers

Tuthill

PD PLUS

MAINTENANCE AND SERVICE SPECIFICATIONS SHEET
MODELS 3202, 3204, 3206, 3210

RECOMMENDED MINERAL BASED LUBRICANTS

AMBIENT TEMPERATURE	SHELL	AMOCO	TEXACO	MOBIL
0° F (-18° C) to 32° F (0° C)	TELLUS 68 (SAE 20)	AMERICAN IND. 68 (SAE 20)	RANDO HD 68 (SAE 20)	DTE HEAVY MEDIUM (SAE 20)
32° F (0° C) to 90° F (32° C)	TELLUS 100 (SAE 30)	AMERICAN IND. 100 (SAE 30)	RANDO HD 100 (SAE 30)	DTE HEAVY (SAE 30)
90° F (32° C) to 120° F (50° C)	TELLUS 150 (SAE 40)	AMERICAN IND. 150 (SAE 40)	RANDO HD 150 (SAE 40)	DTE EXTRA HEAVY (SAE 40)

RECOMMENDED SYNTHETIC BASED LUBRICANTS *

AMBIENT TEMPERATURE	CPI	MOBIL
0° F (-18° C) to 32° F (0° C)	4601-32 (SAE 20)	SHC 626 (SAE 20)
32° F (0° C) to 90° F (32° C)	4601-68 (SAE 30)	SHC 627 (SAE 30)
90° F (32° C) to 120° F (50° C)	4601-100 (SAE 40)	SHC 629 (SAE 40)

NOTE: Tuthill Pneumatics cannot accept responsibility for damage to seals, O-rings and gaskets caused by use of synthetic lubricants not recommended by Tuthill Pneumatics.

* Blowers used in oxygen service should use **only** Castrol Brayco 1726 Plus non-flammable synthetic lubricant.

RECOMMENDED MINERAL BASED, FOOD GRADE LUBRICANTS

AMBIENT TEMPERATURE	LUBRICANT
0° F (-18° C) to 32° F (0° C)	CITGO CLARION® FOOD GRADE A/W 68 (SAE 20)
32° F (0° C) to 90° F (32° C)	CITGO CLARION® FOOD GRADE A/W 100 (SAE 30)
90° F (32° C) to 120° F (50° C)	CONSULT FACTORY

Blowers used in hydrogen service should use only synthetic lubricant.

OIL RESERVOIR CAPACITIES

MODEL	HORIZONTAL FLOW (17/57/64 SERIES)		VERTICAL FLOW (46/81/67 SERIES)	
	GEAR (DRIVE) END	BACK END	GEAR (DRIVE) END	BACK END
3202, 3204, 3206, 3210	12 fluid ounces (0.35 liter)	8 fluid ounces (0.24 liter)	17 fluid ounces (0.50 liter)	12 fluid ounces (0.35 liter)

MAXIMUM OPERATING LIMITS

MODEL	RPM	PRESSURE PSI (mbar)	VACUUM in. Hg (mbar)	TEMPERATURE RISE F° (C°)
3202	3600	15 (1035)	15 (508)	280 (156)
3204	3600	15 (1035)	15 (508)	280 (156)
3206	3600	15 (1035)	15 (508)	280 (156)
3210	3600	15 (1035)	15 (508)	280 (156)



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Tilt Mixer Rotation Drives

Auburn Reducers

Lubrication Data

Power Wheel Planetary Drives are shipped without lubricant and must be filled to the proper level prior to start-up

1. **Type** - In normal applications use an extreme pressure lubricant API-GL-5 approved. AGI recommends SAE 80W, 90, 80W-90 and 85W-90 grades of lube under normal climate and operating conditions. See chart below. For severe or abnormal applications with special requirements consult either Auburn Gear or a lubricant manufacturer for further assistance.
2. **Change Interval** - Initial lubrication change after 50 hours of operation. Subsequent changes every 1000 hours or yearly whichever comes first.
3. **Lube Temperature** - Continuous operating temperatures of 160°F are allowable. Maximum intermittent temperature recommended is 200°F.
4. **Amount of Lube** - The unit should be half full when mounted horizontal. Lube levels for other mounts will vary. Consult Auburn Gear for details.
5. **Shaft or Spindle Up Mounting** - If mounting unit vertically with shaft or spindle up, special provisions apply to ensure adequate lubrication of output bearings. Consult Auburn Gear.

Auburn Gear Power Wheel Low Temperature Gear Lube Requirement	
SAE Viscosity Grade	Auburn Gear Recommended Minimum Temperature
75W-90	-40°F (-40°C)
80W, 80W-90	-15°F (-26°C)
85W, 85W-90	10°F (-12°C)
90	35°F (2°C)

¹ Maximum temperature for Brookfield Viscosity of 150,000 centipoise (cP) per SAE J306 MAR8
² Brookfield Viscosity - *apparent viscosity* as determined under ASTM D 2983
³ 150,000 cP determined to provide sufficient low temperature lube properties for Auburn Gear Power Wheel



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Hydraulic Power Unit Hydraulic Fluid Cross Reference

THE CON-E-CO MIXER HYDRAULIC UNIT IS EQUIPPED FROM THE FACTORY WITH SUNOCO-TH HYDRAULIC FLUID. THE FOLLOWING IS A LIST OF COMPATIBLE OILS IN VARIOUS OTHER BRANDS. THESE FLUIDS MAY BE USED WHEN ADDING OR CHANGING THE HYDRAULIC OIL.

AMOCO 1000
ANCO TRACTOR FLUID
CHEVRON TRACTOR HYD. FLUID
CONOCO POWER-TRAN III
EXXON TORQUE FLUID 56
MOBILFLUID 424
SHELL DONAX TD
UNION UNOCAL HYD/TRACTOR FLUID
VALVOLINE UNITRAC FLUID



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Tilt Mixer Hydraulic Units

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Powertrain

Sunoco® TH Fluid



Sun Company, Inc.

Sunoco® TH Fluid is a premium quality universal tractor hydraulic fluid formulated for long-term service under severe conditions. It is a multi-purpose fluid designed for equipment using a common sump or requiring a single fluid for final drive, transmission, differential, power take-off (PTO) units and wet brake systems. **Sunoco TH Fluid** is also designed for a wide range of ambient temperatures, providing excellent hydraulic and cold temperature performance, as shown by its low pour point. It is highly resistant to oxidation. **Sunoco TH Fluid** is formulated with anti-wear and extreme pressure (EP) additives that provide excellent load carrying capacity and wear protection. It helps protect against foam, rust and corrosion, and resists water.

APPLICATIONS

Sunoco TH Fluid meets or exceeds most tractor manufacturers' specifications and can be used where any of the following are specified.

MANUFACTURER	SPECIFICATION
John Deere	J20C, Quatrol approved
J. I. Case	MS-1207
Massey-Ferguson	Permatran III
White Farm Equipment	Q1766B
Ford-New Holland	M2C134-D, M2C86-B/C
Deutz-Allis	272843
Allison Div., GMC	C-3, C-4
Renk	874/B (Doromat) Transmissions

Sunoco TH Fluid may also be used in older tractors produced by these manufacturers. It is also approved for use in Elgin street sweepers.

Sunoco TH Fluid is recommended for service fill in equipment manufactured by J. I. Case (MS-1207), Massey-Ferguson (M1141), Allis-Chalmers (S25743), International Harvester (B-6), Deutz-Allis, White (Q-1826), Oliver, Steigner, Sunstrand and Versatile, Kubota, Landini and Hesston Fiat.

ADVANTAGES

- Excellent performance at extreme temperatures.
- Resists oxidation, minimizing sludge and varnish buildup that can plug filters and cause unscheduled downtime.
- Excellent performance in newer hydraulic systems that use high pressure (3,000 psi or greater) and fine filters (10 microns).
- Helps protect against rust, corrosion and foam.
- Compatible with most factory-fill TH fluids and seals used in today's tractors.
- Provides smooth wet-clutch performance and chatter-free wet-brake operation.
- Can reduce the number of fluids a maintenance manager needs to inventory to maintain a mixed fleet.
- Field proven in most makes of tractors in operation today. Ongoing field testing and direct involvement with OEMs helps ensure that Sunoco TH Fluid properties will change to meet changing equipment requirements.

TYPICAL PROPERTIES

PRODUCT CODE: 453902

Viscosity, cP @ -35°C (-31°F)	60,000
Viscosity, cSt @ 100°C	9.5
Viscosity, SUS @ 212°F	58.3
Viscosity Index	145
Stable pour point, °C (°F)	-42 (-45)
Pour point, °C (°F)	-42 (-45)

Flash point, °C (°F)	222 (435)
Zinc, %	0.14

Foam test (Tend./Stab. + 0.5% water)

Sequence I, ml	Tr/0
Sequence II, ml	40/0
Sequence III, ml	10/0

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AI-1188-E



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