

INVITATION FOR BIDS

CITY OF CONROE

MOTOR OIL AND GREASE BID



**CITY OF CONROE
P.O. BOX 3066
CONROE, TEXAS 77305**

RESPONSES DUE SEPTEMBER 9, 2021 @ 2:00 PM

CITY OF CONROE PURCHASING DEPARTMENT

NOTICE TO BIDDERS

The City of Conroe will receive bids electronically through Vendor Registry or sealed in triplicate for Motor Oils and Transmission Fluids for the City of Conroe Fleet Department. The proposal shall be appropriately marked “**Bid #0909-2021 Fleet Motor Oils and Grease Bid**” and delivered to the City Secretary 300 West Davis, 3rd Floor, Conroe Texas 77301. Bids will be publicly opened and read on **Thursday, September 9, 2021 at 2:00 p.m.** in the 1st floor Council Chambers at City Hall (300 West Davis).

Specifications and bidding documents may be secured from Vendor Registry. Go to www.cityofconroe.org, Purchasing, for instructions for Vendor Registry.

Any questions relating to the Scope of Work pertaining to this proposal should be directed to **Erik Metzger**, Fleet Manager at (936) 522-3832

No proposal may in any way qualify, modify, substitute or change any part of the proposal specifications.

The City of Conroe reserves the right to reject any and all bids, award parts of bids and to waive informalities in bidding. The City of Conroe also reserves the right to award the proposal to the lowest qualified responsible bidder meeting all the specifications or to the proposer who provides goods or services at the best value for the City.

CC 8/25/21 & 8/30/21

CITY OF CONROE, TEXAS

CITY OF CONROE

1. **Preparation of Bids:**

Unless otherwise directed in the Notice to Bidders, submit bids electronically through vendor Registry or *in triplicate* on the prescribed forms or copies thereof, in a sealed envelope marked “**0909-2021 Fleet Motor Oils and Grease Bid**”. Prepare bids in accordance with the requirements of the Notice to Bidders, and any instructions on the Bid Sheet.

2. **Questions and Inquiries:**

Information about this proposal should be directed to:

Erik Metzger, Fleet Manager
401 Sgt. Ed Holcomb Blvd.
Conroe, TX. 77304
Office: 936-522-3832

3. **Submission of Bids:**

Submit electronically through Vendor Registry or Bids shall be **CLEARLY MARKED “0909 Fleet Motor Oils and Grease Bid”** and submitted by mail or in person to the address below by the time and date set fourth. Responses received later than the due date will not be accepted, and returned unopened.

Due Date: September 9, 2021 @ 2:00 PM

USPS: City of Conroe
Soco Gorjon, City Secretary
P.O. Box 3066
Conroe, TX. 77305

Physical: City of Conroe
Soco Gorjon, City Secretary
300 West Davis St.
Conroe, TX. 77301

4. **Bid Evaluation and Award:**

The bid award will be made on the basis of **Texas Local Government Code Section 252.043**. This section allows the City of Conroe to develop and apply award evaluation criteria for procurement in order to obtain goods or services that provide the *best value* to the City. Under these guidelines, a vendor is not automatically awarded a bid simply because they submit the lowest bid response. In the event that the selected bidder fails to enter into agreement to provide the goods or services which are the subject of this invitation the City retains the right to award the bid to the next qualified bidder.

5. **Reservations:**

All Bids and associated materials received with your response will become the property of the City of Conroe and will be returned at the discretion of the City.

The Laws of the State of Texas, County of Montgomery, and the City of Conroe, with any Rules and Regulations issued, prevail with regard to any contract documents, possible terms and conditions, arbitration or litigation.

6. Owner:

The City reserves the right to award parts of bids, reject any or all bids and to waive technical irregularities in bidding. Contract award will be made on the basis of the lowest qualified responsible bidder or the bidder who provides the goods and services at the best value for the City, considering the evaluation selection criteria below. No bid may be withdrawn before 90 days after submittal.

Best Value Selection Criteria:

- | | |
|--|---------|
| a) Purchase price. | 20 Pts. |
| b) Meets all bid specifications. | 20 Pts. |
| c) Bidder's principle place of business (§271.905). | 20 Pts. |
| d) Compatibility with the Cities existing Equipment. | 10 Pts. |
| e) Cities past history / experience with Manufacturer. | 15 Pts. |
| f) Best delivery. | 15 Pts. |

7. Bidders:

Should a Bidder discover a discrepancy or an omission in the plans or specifications, he should at once notify the Purchasing Department so that an addendum can be issued. No oral explanation or interpretation other than written addendum issued by the City will be considered official or binding. All such addendums shall become part of the contract documents and all bidders shall be bound by such addenda, whether or not received by the bidders.

8. Communications:

The City of Conroe shall not be responsible for any verbal communication between any representative of the City and any potential firm. All modifications to this solicitation must be made in writing. A proposer's failure to examine relevant documents or specifications will not relieve proposer from any obligation with regard to their response to this invitation.

9. Substitutions:

Where services or equipment are specified by a trade or brand name, it is not the intention of the City to discriminate against an equal product of another manufacturer, but to set a definite standard of quality or performance, and to establish an equal basis for the evaluation of bids. In preparing his bid, each bidder is expected to include in his base bid the cost of the items so specified.

10. Default:

The City reserves the right to terminate the contract immediately for failure to meet delivery or completion schedules, or otherwise perform in accordance with the general conditions of this proposal.

11. References:

The City of Conroe may request bidders to supply, with this Invitation to Bid, a list of at least five (5) references where like services have been supplied by their firm. Include name of firm, contact person, address, telephone number and e-mail address.

12. Delivery of Bids:

It is the bidder's responsibility to deliver his proposal at the proper time to the proper place. The fact that a proposal was dispatched will not be considered. The bidder must have the proposal actually delivered before the time set and the start of opening of the bids. Any bids received after the time and date specified in the Notice to Bidders will be returned unopened.

13. Corrections:

Erasures or other corrections in the proposal must be noted over with the proposer's initials.

14. Materials and Services:

The Bidder warrants that goods, materials or services delivered to the City will meet the minimum specifications set forth therein. Bidder shall furnish all data pertinent to specifications and warranties, which apply to items in the bid.

15. Equal Employment Opportunity:

Attention is called to the requirements for ensuring that employees and applicants for employment are not discriminated against because of their age, race, color, creed, sex or national origin.

16. Price of Materials and Sales Tax:

Prices for all goods or services shall remain firm for the duration of this contract and shall be stated on the bid sheet. Prices shall be all inclusive. Any price not shown on the bid sheet will not be honored by invoice. No price changes, additions or subsequent qualifications will be honored during the course of this contract. All prices must be written in ink or typewritten. Transportation, freight or other charges are to be prepaid by the bidder and included in the bid price. If there are additional charges of any kind, other than those mentioned above, specified or unspecified, Bidder must indicate both items required and attendant cost or forfeit the right to payment. Invoices must be submitted by the vendor in duplicate to the City of Conroe Purchasing Dept., P.O. Box 3066, Conroe TX 77305.

This Contract is issued by an organization, which qualifies for exemption pursuant to the provisions of Article 20.04 (F) of the Texas Limited Sales, Excise and Use Tax Act.

17. Indemnification:

The Proposer shall, defend, indemnify, and hold harmless the City of Conroe, their officers, and agents from and against any and all claims, demands, causes of action, orders, decrees, or judgments for injury, death, damage to person or property, loss, damage, or liability of any kind (including without limitation liability under any federal, state, or local environmental law, Compensation and Liability Act; fees and costs (including all costs or settlements and reasonable attorney's fees incurred in defending

any claim, demand, or cause of action) occasioned by, growing out of, or arising from (a) the performance of any product or service to be supplied by the Proposer, or (b) by any act, error or omission on the part of the Proposer, its agents, employees, or subcontractors, and or (c) any failure to fully comply with all applicable laws and regulations by the Proposer, its agents, employees, or subcontractors.

18. Conditions of Conduct:

At all times any agent, officer, or employee of Proposer shall be present upon property owned by the City of Conroe, the terms and conditions of the Drug and Alcohol Policy currently adopted by the City of Conroe, shall be deemed applicable to such persons. Violations of terms and conditions while present on the premises owned by the City of Conroe shall be grounds for termination of any contract between the City and Proposer. A copy of this policy is available for public inspection in the office of the City Secretary and copies may be obtained at a nominal charge.

19. Ethical Standard:

No City official or employee shall have interest in any contract resulting from this bid. Individuals with a possible conflict will enact a public disclosure record by completing a "Statement of Financial Interest" form.

Refer to "Project Number and Title" on the 1295 form. Example forms are included with this Bid.

- **1295 certificate of Interested Parties**
- **Conflict of Interest Questionnaire**
- **HB 89 Verification Form**
- **SB 252 Verification Form**

The four forms stated above MUST be returned as part of your Bid response. Failure to include these forms may result in your Bid being considered unresponsive and therefor disqualified. Sample copies of these forms are included in the Bid. The web address to the Texas Ethics Commission website with instructions is listed below:

(Sample Forms are attached)

https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm

20. Alternate Bid Items:

No alternate bids or bid items will be considered unless they are specifically requested by the bid.

21. Term of Contract:

The contract shall be for one year with the option of three (3) one (1) year renewal options. Price increases are to be submitted at time of renewal and are subject to approval of Fleet Manager.

22. Unit Prices:

The unit price of each of the bid items in the bid proposal shall include its pro-rata share of overhead so that the sum of the products obtained by multiplying the quantity shown for each item by the unit price bid represents the total bid. Any bid not conforming to

STANDARD PURCHASING TERMS AND GENERAL CONDITIONS

the condition may be rejected. The unit prices will be used to determine the amount of any change orders resulting from an increase or decrease in quantities.

23. Payment:

Credit Card payment is preferred. Manual Payment will be scheduled within thirty (30) days upon complete delivery and acceptance of all equipment/material and receipt of an original invoice for the equipment/material complying with the terms and conditions of the award. The City reserves the right to withhold up to ten percent (10%) of the purchase price in the event there is a conditional acceptance.

24. Proposal Agreements and Certification:

The Undersigned Agrees That:

- A. No Federal, State, County or Municipal taxes have been included in the quoted prices and none will be added.
- B. Prices in this proposal have not knowingly been disclosed with any other provider and will not be prior to award.
- C. Prices in this proposal have been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.
- D. No attempt has been made nor will be to induce any other person or firm to submit a proposal for the purpose of restricting competition.
- E. The individual signing this proposal certifies that he/she is a legal agent of the proposer, authorized to represent the proposer and is legally responsible for the offer with regard to supporting documentation and prices provided.

By my signature below I agree to comply with all the provisions, terms and conditions pertaining to this Bid.

(Company Name)

(Name of Authorized Agent – Printed)

(Street Address / P.O. Box)

(Authorized Agent Signature)

(City / State / Zip Code)

(Date)

(Phone)

(E-Mail Address)

Bulk Oil and Fluid Pricing - ** Note: Price shall include all applicable Texas Oil Tax Fees

With each tote of product ordered (Oil or Gear Oil) vendor will provide free of charge 18 oil sample containers with free return shipping and free oil analyses. Oil analyses results must be accessible online.

Line Items may be awarded separately.

Item	Description	Unit of Measure	Qty.	Unit Price	Extension	Total Price
FULL SYNTHETIC OIL SN PLUS OR BETTER						
1	SAE 5w/30 Bulk	Tote (275 Gallons) NO TANKER DELIVERIES	5 Totes	\$ _____ Per Tote	X 5 totes = Total Price	\$ _____
2	SAE 5w/30 Quart	Quart	29 Quarts	\$ _____ Per Quart	X 29 Quarts = Total Price	\$ _____
3	SAE 5w/30 Gallon	Gallon	1	\$ _____ Per Gallon	X 1 Gallon = Total Price	\$ _____
4	Full Synthetic SAE 0W-20 Bulk	Tote (275 Gallons) NO TANKER DELIVERIES	5 Totes	\$ _____ Per Tote	X 5 totes = Total Price	\$ _____
5	Full Synthetic SAE 0W-020 Quart	Quart	84 Quarts	\$ _____ Per Quart	X 84 Quarts = Total Price	\$ _____

FULL SYNTHETIC GEAR OIL Meet or Exceed GL-5 & MT01

6	80/140 Bulk	Tote (275 Gallons) NO TANKER DELIVERIES	2 Totes	\$ _____ Per Totes	X 2 Totes =Total Price	\$ _____
7	80/140 5 Gallon Pail	1- 5 Gallon Pail	1	\$ _____ Per Pail	X 1 Pail =Total Price	\$ _____

GREASE LITHIUM OR SYNTHETIC

8	Grease Tubes - Heavy Equipment Pins & Bushings Steering Suspension Parts #2	Grease Tubes	108 Tubes	\$ _____ Per Tube	X 108 Tubes =Total Price	\$ _____
9	Grease Tubes – Synthetic Food Grade Grease	Grease Tubes	48 Tube	\$ _____ Per Tube	X 48 Tube =Total Price	\$ _____

HYDRAULIC OILS

10	Hydraulic Oil AW 46 AIST or Better	5 Gallon Pail	115 5 Gallon Pails	\$ _____ Per 5 Gallon	X 115 =Total Price	\$ _____
11	Hydraulic Oil 10w AIST or Better	5 Gallon Pail	1 5 Gallon Pail	\$ _____ Per 5 Gallon	X 1 =Total Price	\$ _____
12	Hydraulic Oil 46 Zinc Free AIST or Better	5 Gallon Pail	54 5 Gallon Pail	\$ _____ Per 5 Gallon	X 54 =Total Price	\$ _____
13	Power Train Fluid GL-4 or Better	5 Gallon Pail	61 5 Gallon Pail	\$ _____ Per 5 Gallon	X 61 =Total Price	\$ _____

<p>DO YOU ALLOW PAYMENT WITH CITY CREDIT CARD? Yes _____ No _____</p>	<p>TOTAL BID</p> <p>\$ _____</p>
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Sulfated Ash, mass %	Total Base Number	Water (% by vol)	Oxidation (A/cm)	Ethylene glycol (mg/kg)	Pour Point

Sulfated Ash, mass %	Total Base Number	Water (% by vol)	Oxidation (A/cm)	Ethylene glycol (mg/kg)	Pour Point

Oxidation Stability, 100 hrs	Four-Ball Wear Scar	Four-Ball EP, Weld Load	Timken OK Load, lbs	Corrosion Prevention

**SYNTHETIC MOTOR OIL – 5W-30
FOR USE IN GASOLINE LIGHT DUTY ENGINES**

TYPICAL MINIMUM SPECIFICATIONS

SAE Grade	5W-30(701)
Specific Gravity 60°F (15.6°C)	0.87
Viscosity @ 40°C, cSt. (ASTM D-445)	47-52
Viscosity @ 100°C, cSt. (ASTM D-445)	10.00-12.00
HTHS Viscosity 302°F (150°C), cP (ASTM D-4683)	3.06
Cold Cranking Viscosity @-30°C,	
Cold Cranking Viscosity @-25°C, cP (ASTM D-5293)	—
Mini Rotary Viscosity TP1, cP @-35°C (ASTM D-4684)	22,400
Mini Rotary Viscosity TP-1, cP @-30°C (ASTM D-4684)	—
Viscosity Index (ASTM D-2270)	159
Flash Point °F (°C) (ASTM D-92)	448° (231°)
Pour Point °F (°C) (ASTM D-97)	-39° (-38°)
Total Base Number (ASTM D-2896)	7 TO 7.5
Sulfated Ash Content % wt (ASTM D-874)	0.84%
NOACK Volatility %Evaporation Loss (ASTM D-5800)	11.06%
Foam Test (ASTM D-892)	—
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Sequence IV	0/0
High Temperature Foam Test (ASTM D6082 Option A)	0/0
MHT-4 TEOST (ASTM D-7097) Deposit Weight, mg	10
TEOST 33C ASTM D-6335) Deposit Weight, mg	12.4
Engine Rusting Ball and Rust Test (ASTMD-6557) Average Gray	133
Value Sequence III G % Viscosity increase @40°C	130%
Average Cam & Lifter Wear, um	9.8
% Phosphorous (ASTMD-4951)	0.076

9005 SUPREME 9000™ FULL SYNTHETIC SAE 0W-20

Supreme 9000™ Full Synthetic SAE 0W-20 is a premium quality full synthetic, multi-grade engine oil that is specifically formulated to provide robust protection to critical engine parts from damaging friction and wear, enhanced protection against the formation of sludge and deposits, increased engine efficiency and fuel economy benefits along with extend engine life in all gasoline fueled automobile and light duty truck engines including those that are turbocharged and supercharged.

Supreme 9000™ Full Synthetic SAE 0W-20 is blended from a unique combination of select synthetic base fluids, advanced additive package and highly shear stable viscosity index improver to provide the following advantages:

- Superior cold cranking and oil pumpability at low temperatures
- Exceptional oxidative stability especially and resistance to thermal degradation
- Exceptional low volatility characteristics, that provides enhances oil consumption
- Enhanced film strength at high operating temperatures
- Low coefficients of traction, which result in improved fuel economy benefits.
- Extended oil drain capability and intervals
- A patented novel zinc anti-wear additive system with minimal volatility and chemical breakdown which provides maximum, long lasting anti-wear performance and robustness needed to protect the engine
- Superior engine protection, mitigating LSPI events and protection against timing chain wear
- Outstanding protection against the formation of high temperature deposits
- High detergency and dispersancy to suppress the formation of deposits, sludge and varnish buildup to help maintain engine performance, fuel economy and emissions
- Active cleaning agents for increased and enhanced engine cleanliness
- Exceptional protection against the formation of coking deposits on turbochargers
- Exceptional protection against thermal breakdown during high engine oil operating temperature conditions
- Improved protection against oxidative thickening
- Rapid circulation and excellent pumpability
- Excellent low temperature flow characteristics and pumpability to minimize wear during start-up
- Excellent shear stability to resist viscosity shear down and breakdown
- Excellent high temperature/high shear performance to provide excellent oil film thickness and engine protection at high operating temperatures and shear rates, while minimizing lubricant frictional resistance
- Enhanced lubrication to maintain maximum horsepower and acceleration
- Inhibitors that significantly reduce the problems that can result from the use of ethanol blended fuels
- Prevention of the formation of rust, white sludge and lubricant starvation that can occur with 20% or higher ethanol fuels
- Outstanding rust and corrosion protection
- Extra protection for hot running engines and cold running engines in stop-and-go service.
- Reduced oil ageing allowing for increased drain intervals
- Reduced ring, cylinder and bearing wear for increased bearing life
- Excellent rust and bearing corrosion protection
- Enhanced emission control system compatibility for extended emissions control system life
- Superior valve train-wear protection for increased engine life
- Excellent anti-foaming properties

Further blended into Supreme 9000 Full Synthetic Engine Oil SAE 0W-20 are two proven frictional modifiers, Micron Moly®, a liquid soluble type of moly, and Schaeffer Mfg.'s own proprietary additive Penetro®. Once plated, these frictional modifiers form a long lasting, slippery, tenacious lubricant film, which prevents metal-to-metal contact and damaging frictional wear which results in:

- Increased fuel economy
- A low coefficient of friction
- Significantly less bearing, ring, piston, cylinder and valve-train wear
- Increased engine efficiency, durability, and life
- Less down-time with Reduced maintenance costs

Supreme 9000™ Full Synthetic SAE 0W-20 meets and exceeds the following specifications and manufacturers' requirements: MIL-PRF-46152E; CID A-A-52039B; API Service Classification SP, Resource Conserving; ILSAC GF-6A, Ford WSS-M2C945-A (suitable for use); Ford WSS-M2C946-A (suitable for use); Ford WSS-M2C947-A (suitable for use), Ford WSS-M2C947-B1, Ford WSS-M2C962-A1, General Motors dexos1®Gen2; General Motors 6094M; Chrysler MS-6395Q, MS-9214; Toyota and Honda Service Fill Specifications; Honda/Acura HTO-06.

TYPICAL PROPERTIES

SAE Grade	0W-20
Specific Gravity (ASTM D1298)	0.848
Viscosity @ 40°C, cSt (ASTM D445)	42.37
Viscosity @ 100°C, cSt (ASTM D445)	8.37
Viscosity Index (ASTM D2270)	174
High Temperature/High Shear Viscosity 212°F/100°C, cP (ASTM D4683)	5.70
High Temperature/High Shear Viscosity 302°F/150°C, cP (ASTM D4683)	2.71
Cold Cranking Viscosity (ASTM D5293) @-35°C, cP	5,826
Mini Rotary Viscosity TP-1 @ -40°, cP (ASTM D4683)	20,194
Flash Point °F/°C (ASTM D92)	400°/204°
Pour Point °F/°C (ASTM D97)	-60°/-51°
Total Base Number (ASTM D2896)	7.84
Sulfated Ash Content % wt. (ASTM D874)	0.82%
Shear Stability 30 Passes (ASTM D6278) Viscosity, cSt @100°C	7.37
Copper Strip Corrosion Test (ASTM D130)	1a
NOACK Volatility %Evaporation Loss (ASTM D5800)	12.58%
Foam Test (ASTM D892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Sequence IV	0/0
High Temperature Foam Test (ASTM D6082 Option A)	0/0
MHT-4 TEOST (ASTM D7097) Deposit Weight, mg	29.4
Engine Rusting Ball and Rust Test (ASTM D6557) Average Gray Value	128
Sequence IIIG % Viscosity increase @ 40°C	130%
Average Cam & Lifter Wear, µm	9.8
% Phosphorous (ASTM D4951)	0.076

80W-140 SYNTHETIC OIL

TYPICAL MINIMUM SPECIFICATIONS

SAE Grade	80W-140
Specific Gravity 60°F/15°C	0.872
Viscosity 40°C cSt (ASTM D-445)	198-270
Viscosity 100°C cSt (ASTM D-445)	24.00-30.00
Viscosity Index (ASTM D-2270)	150
Brookfield Viscosity (ASTM D-2983) @-15°F/-26°C, cP	<150,000
Flash Point °F/°C (ASTM D-92)*	445°/229°
Fire Point °F/°C (ASTM D-92)*	480°/249°
Pour Point °F/°C (ASTM D-97)	-25°/-32°
Rust Test (ASTM D-665) Procedure A (Distilled Water)	Pass
Procedure B (Salt Water)	Pass
Copper Strip Corrosion Test (ASTM D-130)	1a
Four Ball EP Test (ASTM D-2783) Weld Point, kg	315
Load Wear Index, kg	55
Four Ball Wear Test (ASTM D-4172) (1 hr/40kg/130°F) Scar Diameter, mm	0.25
FZG (ASTM D-5182, A/8.3/90) Failure Stage	13th
Timken EP (ASTM D-2782) Ok Load, lbs.	65
Falex EP Continuous Load Procedure A (ASTM D-3233) Failure Load, lbs.	2,500
Demulsibility (ASTM D-2711) Free Water, ml	81
% Water in oil	1
Emulsion	Trace
Oxidation Test (ASTM D-2893) Viscosity Increase after 312 hrs. @ 203°F/95°C	3%
L-60-1 Thermal Oxidation Test (ASTM D-5704) % Viscosity Increase	22
Foam Test (ASTM D-892) Sequence I 75°F,ml	0/0
Sequence II 200°F,ml	10/0
Sequence III 75°F,ml	0/0

Grease #1:

TYPICAL TECHNICAL PROPERTIES

X-Treme Synthetic Food-Grade Grease (GXC)

Thickener	Aluminum Complex
NLGI Grade	2
Operating Temperature Range, C° (F°)	-45 (-49) to 250 (482)
Penetration (ASTM D 217) (25°C [77°F], 0.1 mm) worked 60 strokes	280
Dropping Point, °C (°F) (ASTM D 2265)	273 (525)
Four-Ball EP, kgf (ASTM D 2596) Weld Point	315
Load Wear Index	44
Four-Ball Wear Test (ASTM D 2266), mm Scar	0.5
Low-temperature torque, N•m (ASTM D 4693) [-40°C (-40°F)]	2.7
Water Washout, % loss (ASTM D 1264)	5.4
Timken OK Load, lbs. (ASTM D 2509)	40
High-Temperature Life, hours (ASTM D 3527)	48
Rust & Corrosion (ASTM D 1743)	Pass
Color	Whit

Grease #2:

Properties	Method		S2 Gadus V22OAD 2
NLGI Consistency			2
Colour			Black
Soap Type			Lithium/Calcium
Base Oil			Mineral
Kinematic Viscosity	@40°C	cSt	IP 71/ASTM D445 220
Kinematic Viscosity	@100°C	cSt	IP 71/ASTM D445 18
Cone Penetration, Worked	@25°C	0.1 mm	IP 50/ASTM D217 265-295
Dropping Point		°C	IP396 175
4 Ball Weld Load		Kg	IP239 315

Tractor hydraulic fluid can be recommended in the following applications &/or specifications for current & non-current equipment

AGCO-Allis Permatran® 821XL (current)	Ford New Holland ESN-M2C41 A,B & C
ACGO-Allis Power Fluid 821XL (current)	Ford New Holland ESN M2C134D
AGCO Power Fluid 821	Ford New Holland ESN-M2C-169 B & C
Allis Chalmers Part No. 926371	Fiat Hesston AF-87
Allis Chalmers Part No. 924282	IMT
Allis Chalmers Part No. 926372	International Harvester (see Case IH)
Allis Chalmers Part No. 9246634	International-Hough (see Dresser)
Allis Chalmers Part No. 25741	JCB
API GL-4	John Deere J20A & B (Hy-gard)
Automatic Transmission Fluid Type A	John Deere J20C (current) (Hy-gard)
CHN (Case-New Holland) MAT 3525 (current)	John Deere J14B & J14C
CHN (Case-New Holland) MAT 3505 (current)	John Deere J21A (All-Weather Hydraulic Fluid)
Case IH MS-1204/JIC 185 (FTD)	John Deere 303 Fluid
Case IH MS-1205 (TFD-II)	John Deere Quatrol®
Case IH MS-1206 (Powergard PTF)	Kioti
Case IH MS-1207 (Hy-Trans® Plus)	Kubota UDT (current)
Case IH MS-1209 (Hy-Tran® Ultra)	Kubota Super UDT (current)
Case IH MS 1210/JIC 145	Landini Tractor II Hydraulic Fluid
Case IH MS-1230 (Poclain) (current)	Leyland
Case IH JIC 143	Massey Ferguson (ACGO) M-1110
Case IH JIC 144	Massey Ferguson M-1127 A & B
Case IH JIC 145 (TCH Fluid)	Massey Ferguson M-1129A (Permatran)
Case IH JIC 146 (TFD)	Massey Ferguson M-1135 Permatran® III (current)
Case IH JIC 185 (Hi-Vis)	Massey Ferguson M-1141
Case IH B-5	Massey Ferguson M-1143
Case IH B-6 (Hy-Tran®)	Mitsubishi
Case-IH HTF SEMS 17001 (Steiger)	Minneapolis Moline Part No 10R1336
Clark Lift Truck Transmission TA 12, TA 18 (current)	Minneapolis Moline Part No 10R1337
Clark lift Truck Transmission HR 500, HR 600 (current)	Minneapolis Moline Part No 10P707-A
Denison HF-O, HF-1, HF-2	Minneapolis Moline 10P708A
Deutz Hydraulic Transmission Fluid	Minneapolis Moline Part No 10P3740-41
Deutz-Allis Power Fluid 821 XL (current)	New Holland FNHA-2-C-200
Deutz-Allis Power Fluid 821	New Holland FNHA-2-C-201.00
Deutz-Allis 246634	New Holland M2C-134D
Deutz-Allis 25741	New Idea (see White Farm)
Deutz-Allis 272843 (current)	Oliver Type 55
Dresser Transmission Hydraulic Fluid (HMS B806-0002) (current)	Oliver Type 5J
Ford New Holland ESN-M2C41-B	Oliver Q182
Ford New Holland ESN-M2C43	Plessey-Sunstrand
Ford New Holland ESN-M2C48 A & B	Renk Dornomat 873
Ford New Holland ESN-M2C53 A & B	Renk Dornomat 874 A & B
Ford New Holland ESN -M2C86 B & C	Same Deutz-Fahr
Ford New Holland ESN-M2C92-A	Saur Sunstrand Danfoss Hydrostatic Fluid
Steiger HTFSEMS 17001 (obsolete)	White Farm Q-1705
Universal	White Farm Q-1722
Valmet	White Farm Q-1766
Versatile (New Holland) 23M (current)	White Farm Q-1766 B ((UTHF)
Versatile (New Holland) 24M (current)	White Farm Q-1802 (Type 55)
Versatile (New Holland) Gear & Hydraulic Transmission Fluid	White Farm Q-1826 (current)
Vickers (Eaton) I-286-S, 35VQ25, M-2950-S	Yanmar
Volvo VME WB 101 (97303) (current)	Zetor OT-H
White Farm Universal Hydraulic Transmission Fluid	ZF TE-ML-03E (current)
White Farm Part No 30-310-5695	ZF TE-ML-05
White Farm Part No 30-310-5366	ZF TE-ML-05E
White Farm Part No. 30-310-5709	ZF TE-ML-06E
White Farm Part No. 30-311-5717	ZF-TE-ML-06F

Is suitable for use and can be used in the lubrication of Continuously Variable and Infinitely Variable Transmission installed on agricultural equipment. Meets the following manufacturer's agricultural CVT and IVT specifications:

Case CVX	Massey Ferguson CMS M 1145
Deutz TTV	Massey Ferguson Dyna VT
GIMA M 1145	New Holland TVT
JCB	Steyr CVT
John Deere Autopowr	ZF TE-ML-06F
John Deere IVT	

TYPICAL PROPERTIES

Specific Gravity @ 60°F	.8519
Viscosity @ 40°C, cSt (ASTM D-445)	52.00 - 63.00
Viscosity @ 100°C, cSt (ASTM D-445)	9.1 - 10.00
Brockfield Viscosity (ASTM D-2983)	
@ -4°F/-20°C, cP	2,400
@ -31°F/-35°C, cP	23,400
Viscosity Index (ASTM D-2270)	150
Flash Point °F/°C (ASTM D-92)	445°/229.44°
Fire Point °F/°C (ASTM D-92)	480°/248.89°
Pour Point °F/°C (ASTM D-97)	-45°/-42.78°
Stable Pour Point °F/°C (FTM D-203)	-40°/-40°
Copper Strip Corrosion Test (ASTM D-130)	1a
I.H. BT-10 Oxidation Test:	
Weight Loss, mg:	
Aluminum	0.2
Copper	1
Iron	.01
Brass	.05
Precipitation Number	0.002
Glassware Rating	A
John Deere Oxidation Stability Test (JDQ23)	
% Evaporation Loss	0.5
Sludge Formation	None
Additive Separation	None
Humidity Cabinet Rust Test (ASTM D-1748)	
Hours to Rust	+200
Rust Test (ASTM D-665)	
Procedure A (Distilled Water)	Pass
Procedure B (Salt Water)	Pass
Foam Test (ASTM D-892)	
Sequence I	0/0
Sequence II	20/0
Sequence III	0/0

TYPICAL PROPERTIES CONT.

Break Time, seconds	15
Foam Test JDQ-33	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Timken EP Test (ASTM D-2782)	
OK Load Lbs.	30 lbs.
Four Ball Wear Test (ASTM D-4172) (40 kg, 1200 RPM, 1hr)	
Scar Diameter, mm	0.31
Four Ball E.P. (ASTM D-2783)	
Weld Point, kg	200
LWI, kg	40
Vane Pump Wear Test 1,000 psi 176°F/80°C (ASTM D-2882)	
Ring and Vane Weight Loss, mg	2.2
Vickers Vane Pump Test @ 2,000 psi (IP 281)	
Ring and Vane Weight Loss, mg	46
Sediment, % Volume	0
Additive Wt. % Loss	0
Appearance	Clear
John Deere Spiral/Bevel Final Drive	
Gear Wear Test (JDQ 95)	
Spiral Bevel Rating	No Pitting, Rippling or Ridging
Sun Pinion Wear, mm of wear	<0.025
Gear Surface Condition	No Pitting, Rippling or Ridging
Ford 3000 Gear Wear Test	No Pitting
JDQ 94 Powershift Clutch Test	
Total Cycles	2000
Friction Coefficient	
Initial	0.076
Final	0.083
Stall Time, sec.	3.35
Wear, mm	
Disk 1	0.339
Disk 2	0.368
Disk 3	0.313
Disk 4	0.174
Modified FZG (ASTM D-4998)	
Mg weight loss	10 mg
FZG Test (A/8.3/90) (ASTM D-5182)	
Failure Stage	12 th
CRC L-20 Axle Test	
Tooth Wear	Very Light
Surface Fatigue	None
Massey Ferguson Final Gear Wear Test	
Inches of wear	.0001
John Deere Brake Performance test (JDQ 96)	Pass
John Deere Brake Chatter Test	Pass
Ford Brake Chatter Test	Pass
Allison C-4 THOT Oxidation Test	
TAN Increase	2.28
Carbonyl Increase	0.54
% Viscosity Increase @ 40°C	6,14%
% Viscosity Increase @ 100°C	22.54%
Parts Rating	No sludge and varnish deposits
Aniline Point °F/°C (ASTM D-611)	235°/113°
Total Acid Number (ASTM D-664)	2.5-3.0

Hydraulic Oil Specifications

Page 1

Typical Properties

ISO Grade	46
AGMA Grade	1
Specific Gravity 60°F/15°C	.8625
Viscosity SUS 100°F (ASTM D-445)	123-250
Viscosity cSt 40°C (ASTM D-445)	41.40-48.50
Viscosity cSt 100°C (ASTM D-445)	6.2-7.1
Viscosity Index (ASTM D-2270)	100
Flash Point °F/°C (ASTM D-92)	410°/210°
Pour Point °F/°C (ASTM D-97)	0°/-18°
Aniline Point °F/°C (ASTM D-611)	228°/109°
Total Acid Number (ASTM D-664)	0.91
Copper Strip Corrosion Test 3 hrs. (ASTM D-130)	1A
Rust Test (ASTM D-665)	
Procedure A (Distilled Water)	Pass
Procedure B (St Water)	Pass
Four Ball EP Test (ASTM D-2783)	
Weld Point, kg	160
Four Ball Wear Test (ASTM D-4172)	
(1hr/40kg/130°)	
Mean Scar Diameter, mm	0.4
Four Ball Wear Test (ASTM D-4172)	
(1hr/20kg/130°)	
Mean Scar Diameter, mm	.27
Falex Continuous Load lbs. (ASTM D-3233)	
Failure Load, lbs.	1250
Conradson Carbon Residue (ASTM D-189)	
% Residue	0.3
Foam Tendency (ASTM D-892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
FZG Test (ASTM D-5182)	
Load Stage Pass	12
Hydrolytic Stability (ASTM D-2619)	
Copper Wt. Loss mg/cm ²	0.0566
Acidity of Water mg/KOH	0
Demulsibility Test (ASTM D-1401)	
O-W-E	40-40-0
Time, min	15

Hydraulic Oil Specifications

Page 2

	TYPICAL PROPERTIES (Continued)
ISO Grade	46
Denison Filterability Test TP-02100	
Filtration Time, without water (seconds)	146
Filtration Time with 2% water (seconds)	163
Oxidation Stability Test (ASTM D-943)	
Hours to TAN of 2	3500+
Sludge Tendencies (ASTM D-4310)	
Neutralization Number after 1000 hours	0.34
Insoluble Sludge, Total Copper, mg.	39.4
Total Copper, mg	0.1
Thermal Stability Test (ASTM D-2070)	
168 hr/135°C, copper/Steel Catalyst	
Sludge (mg/100ml)	1.8
Copper weight loss, mg/100ml	0.2
Condition of Copper rod	3
Air Release (ASTM D-3427)	
Time, (Min. @ 122°F)	6.2
Denison T6H20C Hybrid Pump Test	
Phase 1 1700 rpm 230°F/110°C weight loss	5.1
Phase 2 1700 rpm 176°F/80°C + 1% water	5.8
Vickers 35VQ25 Pump Test	
Total Wt. Loss Vane, mg	5
Total Wt. Loss Ring, mg	11
Total Wt. Loss, mg	16

Additive technology designed to prevent the formation and the build-up of varnish deposits,

Hydraulic Oil non-detergent, ashless, non-zinc containing anti-wear, rust and oxidation inhibited premium quality oil containing a liquid soluble type of Moly that provides

a solid boundary of wear protection capable of withstanding pressures up to 500,000 lbs psi.

No Zinc Hydraulic Oil non-detergent, ashless, non-zinc containing anti-wear, rust and oxidation inhibited premium quality oil containing a liquid soluble type of Moly that provides a solid boundary of wear protection capable of withstanding pressures up to 500,000 lbs psi.

No Zinc Hydraulic Oil meets and exceeds the following specifications and manufacturer's requirements: Denison HF-O, Eaton-Vickers I-286-S and M-2950-S, Eaton-Char-Lynn, Haldex, Rexroth, Rexnord, Linde, Commercial Shearing HD 2/900, Commercial Intertech, Cincinnati Lamb Landis P38,P-54,P55, P-68, P-70, Sauer Danfoss, Sauer Sundstrand, Parker Hannifin, DIN- 51524 Parts 1, 2 & 3; DIN 51 515, MIL-L-17331H and MIL-L-17672D, U.S. Steel 120, 126, 127,136, AFNOR E-48-600HL, General Electric GEK 32568F, Brown Boveri HTGD 90117, Westinghouse turbine specifications, Ingersoll Rand, Joy, Gardner Denver, Sullair, Worthington, LeRoi, Quincy and Atlas Copco compressor specifications.

TYPICAL PROPERTIES

ISO GRADE	46
AGMA GRADE	1
Specific Gravity	0.8708
Viscosity SUS 100°F (ASTM D-2161)	213-250
Viscosity cSt @ 40°C (ASTM D-445)	41.40-48.50
Viscosity cSt @ 100°C (ASTM D-445)	6.2-7.1

No Zinc Hydraulic Oil

Page 2

ISO GRADE	46
Viscosity Index (ASTM D-2270)	99
Flash Point °F/°C (ASTM D92)	430°/221°
Fire Point °F/°C (ASTM D-92)	460°/238°
Pour Point °F/°C (ASTM D-97)	0°/-18°
Rust Test (ASTM D-665)	
Procedure A	Pass
Procedure B	Pass
Copper Strip Corrosion Test (ASTM D-130)	1A
Total Acid Number (ASTM D-664)	0.69
Foam Test (ASTM D-892)	
Sequence I	0/0
Sequence II	0/0
Sequence III	0/0
Four Ball Wear Test (ASTM D-1472) (1 hour, 130°F, 40kg)	
Scar Diameter, mm	0.27
Falex Continuous Load (ASTM D-3233 Procedure A)	
Failure Load, lbs.	1250
FZG Gear Test (ASTM D-5182)	
Failure Stage	12 th
Four Ball EP (ASTM D-2783)	
Weld Point, kg.	250
Load Wear Index, kg.	77.1
Demulsibility (ASTM D-1401)	
O-W-E	40-40-0
Time (minutes)	15
Hydrolytic Stability (ASTM D-2619)	
Copper Wt. Loss mg/cm ³	0.1
Acidity of Water	0.31
Oxidation Stability Test (ASTM D-943)	
Hours to TAN of 2	5.000

No Zinc Hydraulic Oil

Page 3

ISO GRADE	46
Sludge Tendencies (ASTM D-4310)	
Total sludging, mg.	18
Total Copper, mg	15
Total iron, mg.	0.1
Thermal Stability (Cincinnati Milacron Method 168hrs, 135°C, copper, steel catalyst)	
Sludge (mg/100ml)	7.6
Condition of Copper Rod	3
Condition of Iron Rod	1
Copper wt. Loss, mg	4.2
Air Release (ASTM D-3427)	
Time, minutes @ 122°F	6.2
Denison T6H20C Hybrid Pump Test	
Vane, mgs. Weight Loss	6
Pins, mgs. Weight Loss	0.7
Total Pin & Vane, mgs Wt Loss	6.7
Vickers Vane Pump 35VQ25	
Run 1	
Ring wt. Loss	17
Vane wt. Loss	3
Total wt. Loss	20
Run 2	
Ring wt. Loss	15
Vane wt. Loss	3
Total wt. Loss	18
Run 3	
Ring wt. Loss	29
Vane wt. Loss	7
Total wt. Loss	36
Denison Filterability TP-02100-A	
Without Water, seconds	217.5
With 2% Water, seconds	381
AFNOR Filterability NF48-690 and NF 48-691	
Dry Phase, minutes	1.1
Wet Phase, minutes	1.2

CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

FORM CIQ

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

2 Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

Yes No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

Yes No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6 Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7

Signature of vendor doing business with the governmental entity

Date

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

- (i) a contract between the local governmental entity and vendor has been executed;
- or
- (ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

- (1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);
- (2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or
- (3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

- (A) begins discussions or negotiations to enter into a contract with the local governmental entity; or
- (B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

- (A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);
- (B) that the vendor has given one or more gifts described by Subsection (a); or
- (C) of a family relationship with a local government officer.

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

OFFICE USE ONLY

Complete Nos. 1 - 4 and 6 if there are interested parties.
 Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the goods or services to be provided under the contract.

4 Name of Interested Party	City, State, Country (place of business)	Nature of Interest (check applicable)	
		Controlling	Intermediary

5 Check only if there is NO Interested Party.

6 AFFIDAVIT I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

 Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said _____, this the _____ day of _____, 20 _____, to certify which, witness my hand and seal of office.

 Signature of officer administering oath Printed name of officer administering oath Title of officer administering oath

ADD ADDITIONAL PAGES AS NECESSARY

("Company or Business Name")
House Bill 89 Verification

I, _____ (Person name), the undersigned representative of _____ (Company or Business Name) hereafter referred to as "Company"; being an adult over the age of eighteen (18) years of age, after being duly sworn by the undersigned notary, do hereby depose and verify under oath that the company named-above, under the provisions of Subtitle F, Title 10, Government Code Chapter 2270:

1. Does not boycott Israel currently; and
2. Will not boycott Israel during the term of the contract.

Pursuant to Section 2270.001, Texas Government Code:

1. *"Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and*
2. *"Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.*

DATE

SIGNATURE OF COMPANY REPRESENTATIVE

On this the ____ day of _____, 20____, personally appeared _____, the above-named person, who after by me being duly sworn, did swear and confirm that the above is true and correct.

NOTARY SEAL

NOTARY SIGNATURE

Date

**CITY OF CONROE
PURCHASING DEPARTMENT**

SENATE BILL 252 CERTIFICATION

On this day, I, _____, the Purchasing Representative for the City of Conroe, Texas, pursuant to Chapter 2252, Section 2252.152 of the Texas Government Code, certify that I did review the website list prepared, maintained, and made available to the City of Conroe by the Comptroller of the State of Texas of companies known to have contracts with or provide supplies or services to Iran, Sudan or any foreign terrorist organization. I have ascertained that the below-named company is not contained on said list of companies that do business with Iran, Sudan or any Foreign Terrorist Organization.

Company Name

RFP or Vendor number

CERTIFICATION CHECK PERFORMED BY:

Purchasing Representative

Date