



January 22, 2020

To: Bidders
From: Kathy Cheng, Buyer III
Subject: Questions and Answers to IFB No. P19083
Furnish and Deliver Bulk Lubricants

This document provides answers to the following questions submitted regarding this solicitation:

Question 1: Am I required to provide all products listed in the scope of work to participate in the bid?

Answer 1: Yes, Per the bid documents VTA's basis of award shall be the Total Bid as submitted on Bid Form 1-B, see below:

9. AWARD:

A. Award of a firm fixed-price Contract, if awarded, will be made to the lowest responsive and responsible Bidder.

B. The basis of award shall be the **Total Bid as submitted on Bid Form 1-B.**

Question 2: Some products are showing obsolete specifications.

Answer 2: Can you please provide detail on the products that are obsolete, so VTA can research and provide product updates to our Scope of Work by issuing a formal addendum to the solicitation.

Question 3: Can we substitute products meeting the current spec?

Answer 3: VTA requires that all product that's bid meet our current specifications as detailed in the Scope of Work. VTA will review all product that meets our specifications that hasn't already been pre-approved so long as the vendor includes the necessary back-up documentation as listed in our Scope of Work, such as, the required fluid supporting documents, including manufacturer certifications and test data, technical sheets with descriptions, and Safety Data Sheets. Please see Scope of Work for full details.

Question 4: Per our discussion in the pre-bid conference API Service Category CJ-4 has been superseded by the newest API Category for diesel engines CK-4. CK-4 engine oils are "backward compatible," meaning they are acceptable for use in older diesel engines that required a CJ-4 product. Below is a link to the press release from API regarding this.

The three Pre-Approved Fluids on the BID Form are now CK-4 engine oils. The Fleet Supreme, and Performance Plus products retained their former name. Chevron has sunset the Delo LE product name and replaced that with Delo SDE 15W-40.

<https://www.api.org/news-policy-and-issues/news/2017/03/22/new-api-licensed-ck-4-and-fa-4-diesel-en>

Answer 4: Please see Addendum No.1 posted for Scope of Work changes.

Question 5: May I know the products and pricing under the existing lubricant contract?

Answer 5: Please see the following exhibit 1 - scope of work and exhibit 2 - contract pricing sheet of the existing contract P19094.



Exhibit 1

Scope of Work

Scope of Work

Bulk & Large Quantity Lube and Oil

DELIVERY LOCATIONS:

BUS:

Cerone Complex
3990 Zanker Road
San Jose, California

North Bus Division
1235 L'Avenida
Mountain View, California

Chaboya Bus Division
2240 South Seventh Street
San Jose, California

Rail:

Light Rail Facility
101 W. Younger Street
San Jose, California

Non-Revenue Vehicles:

NRV SHOP (Located within the Cerone Complex)
3990 Zanker Road, BLDG. "I"
San Jose, California

ATF

VTA Part Number 101335

Automatic Transmission Fluid used for bus application shall be certified by Allison transmission to meet Allison's TES-295 transmission fluid specifications. Fluid must be approved by the appropriate transmission manufacturer for use in Voith DIWA D863 transmissions, Allison B400R, B500R World transmissions, Allison 2200 PTS transmission and Allison EP-40 Hybrid drive system.

All fluid must be properly refined to meet the required specifications. Reclaimed or re-refined oils are not acceptable. Any test results submitted shall be done in accordance with applicable ASTM, SAE and transmission manufacturers' procedures.

SAE 15W-40 Diesel Engine Oil

VTA Part Number 101336

Engine oil used for transit bus application shall meet the following requirements:

API Service classification	CJ-4
Sulfated Ash (ASTM D874)	1.0% by weight, max
TBN(ASTM D2896)	8 min.
Viscosity, Kinematic	
@40deg. C	125.0 eSt max
@100 deg. C	15.7 eSt max.

MackEO-MPremiumPlus, T-12	
Top ring weight loss, mg.	45.0 max
Liner wear, microns	18.5 max
Lead increase	
0-300 hours, ppm	25max
250-300 hours, ppm	10max
Oil Consumption g/kW-lu.	75.5 max

Mack EO-M Premium Plus, T-11	
TGA Soot @ increase of 4.0 eSt,	4.0% min
TGA Soot @increase of 12.0 eSt,	6.5% min
TGASoot @increase of 15.0 eSt	7.2% min

Cummins 20081, ISM	
Crosshead weight loss, mg	6.0max
Oil Filter plugging, @ 150 hours, kPa	18.0max
Average Sludge rating	8.8 min

Test results from Southwest Research Institute or other accredited oil testing facility **must** be submitted along with, or prior to, the bid, and will be held confidential by VTA. Testing to be done in accordance with applicable ASTM, SAE, Mack and Cummins Engine Company procedures. All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable.

Certification that the oil has met all the requirements of Cummins test 20081 is required with, or prior to, the bid.

VTA currently uses Chevron Delo 400 LE for this application.

SAE JOW-30 oil

VTA Part Number 101337

The oil is to be used for power steering system and lift hydraulic application in transit buses and shall meet the following requirements:

API Service classification	SH,CD
Mil Spec Performance	MIL-L-2104G
Allison Type Classification	C-4/C-3
Sulfated Ash (ASTM D874)	Less than 1% by weight
TBN (ASTM D2896)	6.5 min.
Viscosity HT/HS (ref. SAE BOO)	3.7 cP min.
Viscosity, Kinematic @100 deg. C	12 eSt max

All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable. Testing to be done in accordance with applicable ASTM and SAE procedures.

VTA currently uses Chevron Supreme for this application.

SAE 85W-140 Gear Oil

VTA Part Number 101338

The oil is to be used for wheel bearings and drive axles in transit buses and shall meet the following requirements:

API Service classification	GL-5
Mil Spec Performance	MIL-L-2104G
Viscosity, Kinematic @100 deg. C	26 eSt max.
Viscosity index	95 min.
Flashpoint	180 deg. C min.
Load Weld, ASTM D2783	
Index	50 kg min.
Point	315 kg min.
Timken OK load	65 lbs.

All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable. Testing to be done in accordance with applicable ASTM and SAE procedures.

VTA currently uses Chevron RPM Gear oil CPS 225039 for this application.

SAE SOW-90 Gear Oil

VTA Part Number 122520

The oil is to be used for wheel bearings and drive axles in transit buses and shall meet the following requirements:

API Service classification	GL-5
Mil Spec Performance	MIL-L-21040
Viscosity, Kinematic @100 deg. C	14.5 eSt max.
Viscosity index	95 min.
Flashpoint	180 deg. C min.
Load Weld, ASTM D2783	
Index	50 kg min.
Point	315 kg min.
Timken OK load	65lbs.

All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable. Testing to be done in accordance with applicable ASTM and SAE procedures.

VTA currently uses Chevron RPM Gear oil CPS 225040 for this application.

Hydraulic Lift Fluid

VTA Part Number 101339

The lift hydraulic fluid must meet the requirements of the wheelchair lifts as determined by the lift manufacturer, Lift-U inc. of Escalon, Ca. It shall be aviation hydraulic fluid which meets MIL. SPEC. H5606A, F or G. Viscosity index shall be a minimum of 300.

All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable. Testing to be done in accordance with applicable ASTM and SAE procedures.

VTA currently uses Chevron Aviation A for this application.

SAE SW-30 Gasoline Engine Oil

VTAPartNumber 123396

The oil is to be used for gasoline powered GMC C5500 chasses used as heavy duty transit buses and shall meet standard OM 6094M and the following requirements:

API Service classification	SMICF
Viscosity, Kinematic	
@40deg. C	60.0 eSt max.
@100 deg. C	11.0 eSt max.
Viscosity index	167 min.

All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable. Testing to be done in accordance with applicable ASTM and SAE procedures.

VTA currently uses Chevron Supreme Synthetic, CPS 220112, for this application.

EP-2 Grease

VTA Part Number 101340

The performance of the grease must meet the need to properly perform in all areas of the VTA transit bus including general chassis lubrication, driveline U-joints and slipjoints, slack adjuster, wheel bearings and other applications found on transit buses.

The grease provided must be a High Temperature, NLGI category EP2 and shall also meet the following requirements:

Timken OK Load		45 lbs.
Kinematic Viscosity,	@40deg.C	792 cStmax
	@100 deg. C	40 cStmax.
	@100 deg. F	4322 SUS
	@210 deg. F	190 SUS
Viscosity index		70 to 90
Dropping point, deg. C		260
Oxidation Stability, ASTM D942, psi		5
100 hours,		
Rust Prevention, ASTM D1743		Pass
Flashpoint, Deg.C		300 min.
Operating range Deg.C		-23 to 163

The grease must meet the requirements of SAE J310 Automotive Lubricating Greases and have been tested in accordance with the applicable ASTM test procedures.

VTA has used Unocal Hi-Temp EP and Chevron Delo EP-2, CPS 235208, for this application. Any alternates proposed must be fully compatible with these organoclay based non-soap grease. Test results showing compatibility must be submitted prior to or with the bid.

75W-90 Synthetic Gear Oil

VTA Part Number 6815

Gearbox Oil for LRV service must meet the following requirements:

API Service classification		MT-1, GL-5
Mil Spec Performance		MIL-PRF-2105E
Viscosity, ASTM D445,	eSt @40 Deg.C	102
	eSt @100 Deg.C	15.1
Low temp. ASTM D2983,	cP @-40 Deg.C	65,700
Timken OK load		70 lb
Viscosity Index		135to170
Flashpoint, ASTM D92, Deg.C		202min.
Pourpoint ASTM D97, Deg.C		-54
Copper Corrosion, ASTM D130,		1B
3 Hours/121 Deg.C		

All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable. Testing to be done in accordance with applicable ASTM and SAE procedures.

Fluid must be approved by Alstom, contractor for the gears, for use in their design. Copy of proof of approval must be provided.

Note: Only known approved material is Mobilube 1 SHC-75W-90. When other materials were tried the result was higher wear metals and eventual gear failures.

VTA currently uses Mobilube 1 SHC75W-90 for this application. To assure the latest information, approval from Alstom must be provided if this material is bid.

Hydraulic Oil

VTA Part Number 107320

Used for the hydraulic brakes on KI railcars.

Fire resistant synthetic hydrocarbon containing phosphate esters, hydraulic fluid with an extreme wide temperature range and meeting the requirements of Mii-H- 83282.

All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable. Testing to be done in accordance with applicable ASTM and SAE procedures.

VTA currently uses Royco 782 for this application.

Light Rail Air Compressor Oil, KI Railcars
NON-DETERGENT TYPE MOTOR OIL-----SAE Grade 30

VTA Part Number 108711

Gravity, oAPI	0.9-1.1
Density, nominal	7.5 lbs./gal.
Flash Point, Deg. C),	Min. 400 (204)
Viscosity, eSt at 100°C	9.5 - 12.4
Viscosity,SUS at 210°F	58-70
Pour Point, Deg.C	-15 max.

All oil must be properly refined to meet the above specifications. Reclaimed or re-refined oils are not acceptable. Testing to be done in accordance with applicable ASTM and SAE procedures.

30 weight non-detergent motor oils currently approved for use in this application by VTA are CITGO Material Code 620703001, Kendall product number 7013 and CompAir CN-300.

Any other fluid proposed must be approved by CompAir, formerly Leroi compressors, manufacturer of the compressors, for use in their design. Copy of proof of approval must be provided no later than the time of bid.

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Traction Motor grease, KI railcars

VTA Part Number 114442

Multipurpose NLGI Grade 2 EP lithium grease with low temperature pumpability of NLGI Grade 0 mineral oil based greases, and shall also meet the following requirements:

Penetration, worked ASTM D217 @ 25 deg.C	280
Viscosity, ASTM D445, eSt @40 Deg.C	220
eSt @100 Deg.C	23.8
Timken OK load, ASTM D2509	50 lb.
4-ball wear, ASTM D2266, mm Scar Diameter	0.5
4-ball weld, ASTM D2596	250 Kg. load, Min.
Dropping point ASTM D2265	255 deg.C, Min.
Rust protection, ASTM D6138 distilled water	0-0
Water washout, ASTM D1264 @ 79deg.C	4% by weight
USSteel Mobility @ -18 Deg.C	5
Operating range, Deg.C	-40to 180

Testing to be done in accordance with applicable ASTM and SAE procedures.

Fluid must be approved by Alstom, manufacturer of the traction motors, for use in their design. Copy of proof of approval must be provided.

Mobilith SHC 220 is known to be approved by the traction motor manufacturer for use in this application.

VTA currently uses Mobilith SHC220 for this application. To assure the latest information, approval from Alstom must be provided if this material is bid.

Grease, Brake Caliper guide rod, KI Railcars

VTA Part Number 114240

Lithium thickened, mineral oil base grease, Grade NOLI 2

Penetration, worked, 60 strokes ASTM D217@ 25 deg.C	287
Penetration, worked, 100,000 strokes ASTM D217@ 25, deg.C	300
Viscosity, ASTM D445, eSt @100 deg.C	5.5
Dropping point ASTM D2265	260 deg.C, Min.
Temperature range, deg.C	-40 to 120
Oil Separation % 30 hours at 100 deg.C	0.7
Copper conosion, ASTM D4048, 24 hours at 100 deg.C	1b, max
Rust protection, ASTM D1743	Pass
Water washout, ASTM DI264 @38 deg.C	2% by weight

Material must also meet MIL G-1092-4F, MIL G-24139A and preferably AAR M-914.

Testing to be done in accordance with applicable ASTM and SAE procedures.

Fluid must be approved by Knorr, manufacturer of the brake system, for use in their design. Copy of proof of approval must be provided.

AeroShell #6 has been approved by the brake manufacturer for use in this application.

VTA currently uses Aeroshell #6 for this application. To assure the latest information, approval from Knorr must be provided if this material is bid.



Exhibit 2

Contract Pricing Sheet

Exhibit 2- Pricing Sheet

Contract Pricing Sheet

VTA	VTA/SAP CONTRACT #	PRODUCT DESCRIPTION	CONTAINER SIZE	UNIT OF MEAS.	EST. ANNUAL USAGE	NEW UNIT PRICE W/FEES annual usage
BULK ITEMS						
6815	4603856	75W-90 SYNTHETIC GEAR OIL (Approx. 400 lbs/drum)	55 GAL. DRUMS	LBS.	7,000	\$3,4947
		MOBILUBE SHC 75w-90				\$24,462.90
101335	4603856	AUTOMATIC TRANSMISSION FLUID (BULK)	BULK DELIVERY	GAL.	13,000	\$30.7600
		BP AUTRAN SYN 295				\$399,880.00
101336	4603856	SAE 15W40 OIL (CJ-4)	BULK DELIVERY	GAL.	20,371	\$9.5300
		CONOCO/PHILLIPS FLEET SUPREME EC 15W-40				\$194,135.63
101337	4603856	SAE10W30 OIL	55 GAL. DRUMS	GAL.	24	\$8.9800
		AS SPECIFIED -- CHEVRON SUPREME 10W-30				\$215.52
101338	4603856	85W140 GEAR OIL (Approx. 400 lbs/drum)	55 GAL. DRUMS	LBS.	20,371	\$1.5647
		CONOCO/PHILLIPS/76 GEAR LUBE 85W-140				\$31,874.50
101339	4603856	HYDRAULIC LIFT FLUID (Aviation "A" Fluid)	55 GAL. DRUMS	GAL.	210	\$16.1900
		CONOCO/PHILLIPS X/C 5606 H				\$3,399.90
101340	4603856	EP-2 GREASE (Approx. 400 lbs/drum)	55 GAL. DRUMS	LBS.	4,029	\$2.7000
		AS SPECIFIED - CHEVRON DELO EP2				\$10,878.30
107320	4603856	HYDRAULIC OIL	55 GAL. DRUMS	GAL.	110	\$37.1000
		ROYCO 782				\$4,081.00
120087	4603856	10W-30 DELO 400	55 GAL. DRUMS	GAL.	8	\$10.0800
		CONOCO/PHILLIPS FLEET SUPREME EC 10W-30				\$80.64
122511	4603856	AUTOMATIC TRANSMISSION FLUID (DRUMS)	55 GAL. DRUMS	GAL.	24	\$30.7600
		BP AUTRAN SYN 295				\$738.24
122520	4603856	80W90 GEAR OIL CHEVRON RPM (Approx. 400 lbs/drum)	55 GAL. DRUMS	LBS.	1,100	\$1.3847
		CONOCO/PHILLIPS/76 GEAR LUBE 80W-90				\$1,523.17
123396	4603856	SAE 5W30 ENGINE OIL COMMUNITY BUSES	55 GAL DRUMS	GAL.	1,500	\$8.9800
		AS SPECIFIED -- CHEVRON SUPREME 5W-30				\$13,470.00
108711	8600022	30W NON-DETERGENT MOTOR OIL	CASE (12 QTS)	QUART	360	\$3.1655
		CONOCO/PHILLIPS/KENDALL NON-DETERGENT 30W				\$1,139.58
114240	8600022	GREASE, BRAKE CALIPER GUIDE ROD, KI RAILCARS	14 OZ. TUBES	TUBE	60	\$4.6000
		SHELL AEROSHELL #6				\$276.00
114442	8600022	TRACTION MOTOR GREASE, KI RAILCARS	14 OZ. TUBES	TUBE	120	\$5.2500
		MOBILITH SHC 220				\$630.00
124640	8600022	DOT 3 BRAKE FLUID	1 GALLON	GAL.	20	\$15.9300
		SERVICE PRO DOT3 BRAKE FLUID				\$318.60
125618	8600022	SAE 5W30 ENGINE OIL COMMUNITY BUSES	CASE (12 QTS)	QUART	50	\$2.7725
		AS SPECIFIED -- CHEVRON SUPREME 5W-30				\$138.63