

Test Package C1

Lubrication-Basic

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
mod. ASTM D445	Viscosity @ 100°C	Testing	\$6.01	\$6.01	\$6.61	\$6.61
mod. ASTM D5185	Elemental Metals Analysis	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Water by Crackle (estimate)	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
Total per Sample			\$7.47	\$7.42	\$8.07	\$8.02

Test Package C2

Diesel Crankcase

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
mod. ASTM D445	Viscosity @ 100°C	Testing	\$7.97	\$7.97	\$8.77	\$8.77
mod. ASTM D5185	Elemental Metals Analysis	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Water by Crackle (estimate)	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
ASTM D7593	Fuel Dilution %	Total per Sample	\$9.43	\$9.38	\$10.23	\$10.18
ASTM E2412	Soot %					
ASTM E2412	Oxidation/Nitration					
mod. ASTM D4739	Base Number					

Test Package C2AN

Diesel Crankcase

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
mod. ASTM D445	Viscosity @ 100°C	Testing	\$8.27	\$8.27	\$9.10	\$9.10
mod. ASTM D5185	Elemental Metals (Wear, Contaminant, Additive & Multi-Source) by ICP	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Water by Crackle (estimate)	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
ASTM D7593	Fuel Dilution %	Total per Sample	\$9.73	\$9.68	\$10.56	\$10.51
ASTM E2412	Soot %					
ASTM E2412	Oxidation/Nitration					
mod. ASTM D664	Acid Number					

Test Package C2D600

Delo 600 Engine

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
mod. ASTM D445	Viscosity @ 40°C and 100°C, plus a Viscosity Index	Testing	N/A	N/A	\$8.91	\$8.91
mod. ASTM D5185	Elemental Metals Analysis	Sample Kit	N/A	N/A	\$1.35	\$1.30
Internal Method	Water by Crackle (estimate)	**Labels	N/A	N/A	\$0.11	\$0.11
ASTM D7593	Fuel Dilution %	Total per Sample			\$10.37	\$10.32
ASTM E2412	Soot %					
ASTM E2412	Oxidation/Nitration					
mod. ASTM D664	Acid Number					
mod. ASTM D7946	i-pH					

Test Package C3

Natural Gas Engine Oils

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
mod. ASTM D445	Viscosity @ 40°C or 100°C	Testing	\$8.41	\$8.41	\$9.25	\$9.25
mod. ASTM D5185	Elemental Metals Analysis	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Water by Crackle (estimate)	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
ASTM E2412	Oxidation/Nitration	Total per Sample	\$9.87	\$9.82	\$10.71	\$10.66
mod. ASTM D664	Acid Number					
mod. ASTM D7946	i-pH					

Test Package C4 Industrial Oils - No Particle Count

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
mod. ASTM D445	Viscosity @ 40°C	Testing	\$7.97	\$7.97	\$8.77	\$8.77
mod. ASTM D5185	Elemental Metals Analysis	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Water by Crackle (estimate)	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
ASTM E2412	Oxidation/Nitration					
mod. ASTM D664	Acid Number	Total per Sample	\$9.43	\$9.38	\$10.23	\$10.18

Test Package C4PC Industrial Oils with Particle Count

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
mod. ASTM D445	Viscosity @ 40°C	Testing	\$20.58	\$20.58	\$22.64	\$22.64
mod. ASTM D5185	Elemental Metals Analysis	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Water by Crackle (estimate)	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
ASTM E2412	Oxidation/Nitration					
mod. ASTM D664	Acid Number	Total per Sample	\$22.04	\$21.99	\$24.10	\$24.05
ISO 4406	Particle Count (Calibration ISO 11171)					

Test Package C5 Metal Working Fluids

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
mod. ASTM D445	Viscosity @ 40°C	Testing	\$48.59	\$48.59	\$53.45	\$53.45
mod. ASTM D5185	Elemental Metals Analysis	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
mod. ASTM D6304C	Water by Karl Fischer - Coulometric %	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
ASTM D5384	Chlorine					
Mod. ASTM D5185	Sulfur In Oil	Total per Sample	\$50.05	\$50.00	\$54.91	\$54.86
Internal Method	Fat %					

Test Package C6 Turbine Oils

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			16 oz. Sample Jar & Black Plastic Mailer		16 oz. Sample Jar & Black Plastic Mailer	
mod. ASTM D445	Viscosity @ 40°C	Testing	\$226.98		\$249.68	
mod. ASTM D5185	Elemental Metals Analysis	Sample Kit	\$4.58		\$4.58	
mod. ASTM D6304C	Water by Karl Fischer - Coulometric %	**Labels	\$0.11		\$0.11	
ASTM E2412	Oxidation/Nitration					
ISO 4406	Particle Count (Calibration ISO 11171)	Total per Sample	\$231.67		\$254.37	
ASTM D1401	Water Separability Characteristics					
ASTM D2272	RPVOT					
mod. ASTM D664	Acid Number					

Test Package C7 Coolant Basic Conventional

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
ASTM D1287	pH Waters	Testing	\$16.58	\$16.58	\$18.24	\$18.24
mod. ASTM D3321	Freeze Point	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Anti-Freeze %	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
Internal Method	Boil Point					
Meter Measurement	Total Dissolved Solids	Total per Sample	\$18.04	\$17.99	\$19.70	\$19.65
Meter Measurement	Specific Conductance					
Internal Method	Nitrite					
Internal Method	SCA Number					
Internal Method	Hardness					
mod. ASTM D5185	Elemental Metals Analysis					

Test Package C8

Coolant Basic Extended Life

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
ASTM D1287	pH Waters	Testing	\$17.88	\$17.88	\$19.67	\$19.67
mod. ASTM D3321	Freeze Point	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Anti-Freeze %	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
Internal Method	Boil Point	Total per Sample	\$19.34	\$19.29	\$21.13	\$21.08
Internal Method	Nitrite					
Manufacturer	Carboxylic Acid					
mod. ASTM D5185	Elemental Metals Anaylsis					

Test Package C9

Coolant Advanced Extended Life

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
			3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer
ASTM D1287	pH Waters	Testing	\$27.93	\$27.93	\$30.72	\$30.72
mod. ASTM D3321	Freeze Point	Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30
Internal Method	Anti-Freeze %	**Labels	\$0.11	\$0.11	\$0.11	\$0.11
Internal Method	Boil Point	Total per Sample	\$29.39	\$29.34	\$32.18	\$32.13
	Ion Chromatography (Chloride, Sulfate, Nitrite, Nitrate, Glycolate, Acetate, Formate, Oxylate)					
ASTM D5827	Elemental Metals Anaylsis by ICP					
mod. ASTM D6130	Carboxylic Acid					
Manufacturer	Hardness					
Internal Method						

Test Package C10

Basic Grease

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
				Grease Sampler & Envelope Mailer		Grease Sampler & Envelope Mailer
FTIR	FTIR - Full Spectrum Scan	Testing		\$15.40		\$15.40
ASTM D7918	Ferrous Debris Level	Sample Kit		\$15.74		\$15.74
ASTM D7918	Color	**Labels		\$0.11		\$0.11
Internal Method	Water by Crackle (estimate)	Total per Sample		\$31.25		\$31.25

Test Package C11

Advanced Grease

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
				Grease Sampler & Envelope Mailer		Grease Sampler & Envelope Mailer
FTIR	FTIR - Full Spectrum Scan	Testing		\$159.50		\$159.50
ASTM D7918	Ferrous Debris Level	Sample Kit		\$15.74		\$15.74
ASTM D7918	Color	**Labels		\$0.11		\$0.11
Internal Method	Water by Crackle (estimate)	Total per Sample		\$175.35		\$175.35
ASTM D7918	Consistency					
ASTM D6971	LSV (Ruler)					
mod. ASTM D5185	Elemental Metals Anaylsis (ICP)					
mod. ASTM D6304C	Water by Karl Fischer - Coulometric (ppm)					
mod. ASTM D7463	Microbiological Activity					

Test Package C12

Filter Debris

Method	Description of Service		*Pre-Paid Price		*Invoiced Price	
				Filter Debris Kit & Box Mailer		Filter Debris Kit & Box Mailer
ASTM D7690	Ferrogaphy - Analytical	Testing		\$50.94		\$56.03
mod. ASTM D5185	Elemental Metals Anaylsis	Sample Kit		\$13.46		\$13.46
		**Labels		\$0.11		\$0.11
		Total per Sample		\$64.51		\$69.60

Test Package C13		Photo Micrograph		*Pre-Paid Price		*Invoiced Price	
Method	Description of Service		3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	3 oz. Sample Jar & Black Plastic Mailer	3 oz. Sample Jar & Envelope Mailer	
Internal Method	Photo Micrograph (PT-Picture Only)	Testing	\$11.20	\$11.20	\$12.32	\$12.32	
		Sample Kit	\$1.35	\$1.30	\$1.35	\$1.30	
		**Labels	\$0.11	\$0.11	\$0.11	\$0.11	
		Total per Sample	\$12.66	\$12.61	\$13.78	\$13.73	

Test Package C14		Diesel Fuel Basic		*Pre-Paid Price		*Invoiced Price	
Method	Description of Service			16 oz. Diesel Fuel Kit & Box Mailer		16 oz. Diesel Fuel Kit & Box Mailer	
mod. ASTM D6304C Manufacturer Internal Method ISO 4406	Water by Karl Fischer - Coulemetric (%) Bacteria, Fungi, Mold Appearance Particle Count (Calibration ISO 11171)	Testing		\$50.57		\$55.63	
		Sample Kit		\$5.21		\$5.21	
		**Labels		\$0.11		\$0.11	
		Total per Sample		\$55.89		\$60.95	

Test Package C15		Diesel Fuel Advanced		*Pre-Paid Price		*Invoiced Price	
Method	Description of Service			16 oz. Diesel Fuel Kit & Box Mailer		16 oz. Diesel Fuel Kit & Box Mailer	
mod. ASTM D5185 mod. ASTM D6304C mod. ASTM D445 ASTM D7689 ASTM D3828 ASTM D7346 ASTM D7777 ASTM D976 Predicted D86 results by ASTM D7345 ASTM D7220 mod. ASTM D6468 Manufacturer ISO 4406	Elemental Metals Analysis Water by Karl Fischer - Coulemetric (%) Viscosity at 40°C Cloud Point Flash Point - Closed Cup Pour Point API Gravity Cetane Index Micro-Distillation Sulfur Thermal Stability Bacteria, Fungi, Mold Particle Count (Calibration ISO 11171)	Testing		\$194.70		\$214.17	
		Sample Kit		\$5.21		\$5.21	
		**Labels		\$0.11		\$0.11	
		Total per Sample		\$200.02		\$219.49	

Test Package C16		Diesel Fuel Cleanliness		*Pre-Paid Price		*Invoiced Price	
Method	Description of Service			16 oz. Diesel Fuel Kit & Box Mailer		16 oz. Diesel Fuel Kit & Box Mailer	
mod. ASTM D5185 mod. ASTM D6304C ISO 4406 ISO 4406	Elemental Metals Analysis Water by Karl Fischer - Coulemetric (ppm) Particle Count (Calibration ISO 11171) Particle Count (Calibration ISO 11171)	Testing		\$17.69		\$19.46	
		Sample Kit		\$5.21		\$5.21	
		**Labels		\$0.11		\$0.11	
		Total per Sample		\$23.01		\$24.78	

Additional Testing			*Pre-Paid Price	*Invoiced Price
Method	Description of Service	Volume Required		
Internal Method	Micro-Patch	20 ml	\$60.00	\$58.82
mod. ASTM D7843	MPC (Membrane Patch Colorimetry)	120 ml	\$155.00	\$92.65
ASTM D7690	Ferrogaphy - Analytical	2 ml	\$60.00	\$58.82
ASTM D892	Foam	800 ml	\$150.00	\$86.47
ISO 4406	Particle Count (Calibration ISO 11171)	80 ml	\$17.00	\$9.62
ASTM D1401	Water Separability Characteristics	80 ml	\$60.00	\$35.31

NOTE:* **Pre-Paid Price** - Sample Kits and Testing are invoiced when order is placed.

*** Invoiced Price** - Testing is invoiced monthly and kits are invoiced when order is placed.

**** Labels** - Go Digital Labels are available for most sample kits or can be selected on an order by order basis. These labels are free but require all users to add/update equipment and submit sample information online via HORIZON.

*******All compressor samples or industrial application samples with a component type of hydraulic or turbine will receive a Karl Fischer confirmation if the Water By Crackle result is positive for water.