

Leonardo Velasquez

📞 (309) 555-7426 ✉ leonardo.velasquez@example.com 🔗 linkedin.com/example/leonardovelasquez 📍 Normal, IL 61761

SUMMARY

Chemistry graduate with four years of direct laboratory experience supporting fluid analysis, equipment condition monitoring, and quality systems in high throughput environments. Processes oil, fuel, **source water**, and coolant samples through registration, preparation, testing, data review, reporting, and disposal. Hands on work includes wet chemistry, titration, particle count, viscosity, FTIR, **gas chromatography**, ICP, IC/HPLC, Karl Fischer, TBN, TAN, pH, conductivity, refractive index, and coolant nitrite analysis. Maintains traceable reagents, standards, LIMS records, archives, **non conforming sample logs**, and waste documentation. Uses structured troubleshooting during instrument and data anomalies, supports shift handoffs, and communicates clearly with customers. Ready to contribute accurate results, dependable turnaround, safe laboratory practice, and ISO 9001 aligned quality to **preventive maintenance** decisions.

EXPERIENCE

Development Analyst, Fluid Diagnostics October 2024 - Present
Precision Fluid Diagnostics Decatur, IL

Supports high volume oil, fuel, water, and coolant analysis from sample intake through result transfer. Owns **wet chemistry**, instrumental testing, data review, troubleshooting, documentation, and customer communication within ISO 9001 aligned laboratory operations.

- Processed oil, fuel, water, and coolant samples through preparation, testing, review, and LIMS transfer.
- Performed viscosity, **particle count**, FTIR, TBN, TAN, **Karl Fischer**, pH, and conductivity testing.
- Operated ICP and **IC/HPLC** workflows while preparing traceable reagents and calibration standards.
- Investigated instrument anomalies through verification checks and documented troubleshooting, restoring dependable analytical results.
- Maintained **ISO 9001** records, **non conforming sample logs**, archives, and waste documentation.
- Coordinated shift handoffs and clarified data questions with service customers during daily reporting.

Laboratory Analyst, Quality Testing October 2022 - September 2024
Central Illinois Quality Labs Peoria Heights, IL

Performed lubricant, fuel, and process fluid testing in a quality laboratory supporting sample registration, preparation, analysis, reporting, and audits. Built early career depth across wet chemistry, chromatography, physical testing, LIMS workflows, safety, and traceable documentation.

- Executed wet chemistry and instrumental testing for lubricant, **fuel**, and process fluid samples.
- Prepared samples, **reagents**, and **standards** with traceable preparation records for repeatable analysis.
- Conducted **particle count**, flash point, pour point, cloud point, color, and chromatography testing.
- Registered incoming **samples**, checked labeling, and tracked work in process through LIMS workflows.
- Reviewed instrument data, transferred results, and archived records for complete sample traceability.
- Supported waste handling, **Chemical Hygiene Plan** practices, equipment checks, and quality audits.

PROJECTS

Fluid Sample Traceability Program 📅 2025
Improved sample control by connecting registration, testing status, LIMS transfer, non conforming records, archives, and disposal documentation into one traceable workflow.

Instrument Verification Workflow 📅 2024
Structured repeat checks and documented troubleshooting for analytical anomalies, helping laboratory teams review dependable results before customer reporting.

LEADERSHIP & AWARDS

- Selected as a trusted resource for instrument troubleshooting and analytical data review within laboratory operations.
- Recognized by laboratory teams for dependable shift handoffs, organized records, and responsive customer communication.

EDUCATION

Bachelor's Degree in Chemistry 2022
Illinois State University GPA: 4.0 Normal, IL
Coursework: Analytical chemistry, organic chemistry, instrumental analysis, laboratory safety

CERTIFICATIONS

- ISO 9001:2015 Quality Management Systems Fundamentals 📅 2023
- Laboratory Safety and Chemical Hygiene Training 📅 2022

TECHNICAL SKILLS

- **Fluid Analysis:** Oil analysis, fuel testing, coolant testing
- **Wet Chemistry:** Titration, TBN, TAN
- **Spectroscopy:** FTIR, refractive index, conductivity
- **Chromatography:** Gas chromatography, IC, HPLC
- **Elemental Analysis:** ICP, metals analysis, source water testing
- **Physical Testing:** Viscosity, particle count, flash point
- **Instrument Operations:** Instrument validation, calibration, troubleshooting
- **Laboratory Systems:** LIMS, Instrument Manager, data transfer
- **Quality Systems:** ISO 9001, QMS, quality assurance
- **Safety Compliance:** Chemical Hygiene Plan, EHS, waste disposal
- **Sample Control:** Sample registration, archives, disposal
- **Coolant Testing:** Nitrite titration, pH, conductivity
- **Fuel Characterization:** Fuel sulfur analysis, pour point, cloud point
- **Documentation:** Non conforming logs, traceability, audit records
- **Operational Support:** Preventive maintenance, product testing, customer communication

SKILLS

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|-------------------|------------------|------------------------|----------------|
| • Wet Chemistry | • ISO 9001 | • Viscosity | • TBN |
| • Oil Analysis | • QMS | • FTIR | • TAN |
| • Fuel Testing | • LIMS | • Gas Chromatography | • Karl Fischer |
| • Coolant Testing | • Particle Count | • Fuel Sulfur Analysis | |

PROFESSIONAL AFFILIATIONS

- Laboratory quality and safety contributor supporting ISO 9001 practices, Chemical Hygiene Plan expectations, and EHS compliance.
- Cross shift laboratory collaborator connecting sample status, data questions, and customer reporting needs.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST