

# Leonardo Velasquez

## Development Analyst, Laboratory Analysis

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### STRENGTHS

- Analytical accuracy**  
A questionable result prompted a repeat check and documented review, giving teammates confidence in reported data.
- Sample traceability**  
From registration through disposal, organized records kept sample history clear and made audits easier for colleagues.
- Instrument troubleshooting**  
When readings looked unusual, verification checks isolated issues and restored dependable testing without guesswork.
- Shift collaboration**  
Clear handoffs kept work moving across schedules, and peers came back for concise status updates.
- Safe laboratory practice**  
Routine attention to reagents, waste, and Chemical Hygiene Plan steps supported steady, safe daily operations.

### SKILLS

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

### LANGUAGES

|         |            |
|---------|------------|
| English | Native     |
| Spanish | Proficient |

### 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

Precision Fluid Diagnostics 📅 October 2024 - Present 📍 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

Central Illinois Quality Labs 📅 October 2022 - September 2024 📍 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

## MY CAREER



● Development Analyst, Fluid Diagnostics at Precision Fluid Diagnostics (2 Years)

● Laboratory Analyst, Quality Testing at Central Illinois Quality Labs (1.9 Years)

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

Illinois State University 🎓 GPA: 4.0 📅 2022 📍 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

## 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.

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST