

These instructions will walk you through how to read your sample report, a definition of what each section means and how to interpret the information.

Sample Information and Result Summary

Open a sample report in HORIZON® using one of the methods in the “Find a Sample” instructions. The top of the report has all of the information you need to take action on the results.

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Lubricant Analysis Report				
North America: +1-877-808-3750				
 Overall report severity based on comments.				
Account Information		Component Information		Sample Information
Account Number: DEMO01-0001-0053	Company Name: The Aggregate Company	Serial #: 404-2010-01 E	Model #: CS53	Tracking Number: 79101P03489
Contact: John The Aggregate Company		Component Type: DIESEL ENGINE	Manufacturer: JOHN DEERE	Lab Number: Q-075718
Address: 123 The Aggregate Company Street		Model: 824K	Application: QUARRY	Lab Location: Indianapolis
COLCHESTER, IL 62326 US		Sump Capacity: 10 gal		Data Analyst: KRM
Phone Number: 555-555-5555				Sampled: 27-Mar-2018
				Received: 30-Mar-2018
				Completed: 31-Mar-2018

1. Severity Scale

The overall sample severity is a color-coded scale to help you assess the internal conditions of the equipment at a glance. The color-coded scale ranges from 0-4 and is based on comments, not individual test results.

SEVERITY 0 - All test parameters including wear metals are within normal limits.

SEVERITY 1 - Test parameters and wear metals are within normal limits but one or more are slightly out of limits but not yet abnormal.

Continue to monitor for changes in upward trends with wear and changes with the fluid properties. In the Data Analyst comments, language used for severity 1 is MINOR.

SEVERITY 2 - Test parameters and wear metals are within lower levels of abnormal limits with one or more that are increasingly out of limits. This level of severity brings the oil and equipment into a state of closer monitoring for wear, contamination and/or changes with the fluid properties. In the Data Analyst comments, language used for severity 2 is MODERATE.

SEVERITY 3 - Test parameters and wear metals are within higher levels of abnormal limits with several or more that are increasingly out of limits. This level of severity brings the oil and equipment into a higher state of closer monitoring and suggested maintenance action(s). In the Data Analyst comments, language used for severity 3 is SIGNIFICANT.

SEVERITY 4 - Test parameters and wear metals are within much higher levels of abnormal limits with several or more that are increasingly out of limits. This level of severity brings the oil and equipment into a highest state of monitoring and suggested maintenance action(s). In the Data Analyst comments, language used for severity 4 is SEVERE.

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Lubricant Analysis Report

North America: +1-877-808-3750

0	1	2	3	4
NORMAL	ABNORMAL	CRITICAL		

Overall report severity based on comments.

Account Information		Component Information	Sample Information
Account Number: DEMO01-0001-0053	Company Name: The Aggregate Company	Serial #: 404-2010-01 E	Tracking Number: 79101P03489
Contact: John The Aggregate Company	Address: 123 The Aggregate Company Street	Model #: CS53	Lab Number: Q-075718
Address: 123 The Aggregate Company Street	COLCHESTER, IL 62326 US	Component Type: DIESEL ENGINE	Lab Location: Indianapolis
Phone Number: 555-555-5555		Manufacturer: JOHN DEERE	Data Analyst: KRM
		Model: 824K	Sampled: 27-Mar-2018
		Application: QUARRY	Received: 30-Mar-2018
		Sump Capacity: 10 gal	Completed: 31-Mar-2018
Filter Information		Miscellaneous Information	Product Information
Filter Type: FULLFLOW	Micron Rating: 15		Product Manufacturer: CONOCO
			Product Name: FLEET SUPREME EC ENGINE OIL
			Viscosity Grade: SAE 15W40
Comments	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. FUEL DILUTION is at a MINOR LEVEL. FUEL DILUTION possibly caused by excessive idling Lubricant and filter change acknowledged.		

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2. Information Summary

This area contains information about the account, component, sample, filter, product (fluid) and miscellaneous information. Providing this information is vital for data analysts to correctly apply the specific flagging limits for your equipment.

Filling in miscellaneous information is not required when submitting the sample. Examples of miscellaneous information can include the time the sample was taken or the initials of the person taking the sample.

3. Comments

This section includes the analysis of the test results, including maintenance recommendations and feedback from our data analysis team. These comments, in conjunction with individual test results, determine the overall severity of the report.

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Test Results

These instructions will walk you through how to read your sample report, a definition of what each section means and how to interpret the information.

4. Elemental Analysis

The elemental analysis data will detect wear particles, contaminants, multi-source metals and additive metals.

5. Sample Information

This area contains information about the sample to be considered by the data analyst (date sampled, date received, lube time, unit time, lube change, lube added and filter change).

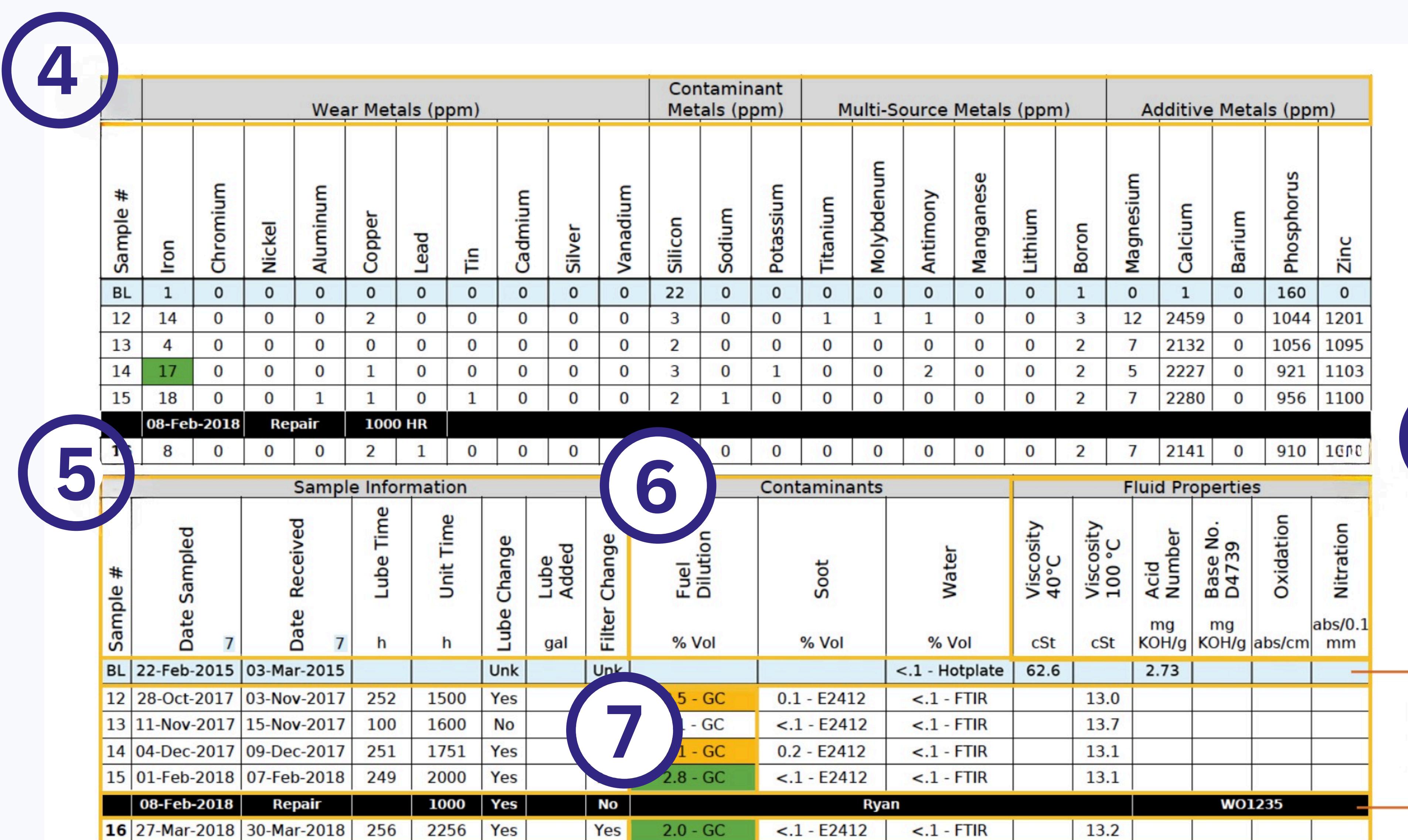


Table 4: Elemental Analysis (Wear Metals, Contaminant Metals, Multi-Source Metals, Additive Metals)

Table 5: Sample Information (Date Sampled, Date Received, Lube Time, Unit Time, Lube Change, Lube Added, Filter Change, Fuel Dilution, Soot, Water, Viscosity 40°C, Viscosity 100°C, Acid Number, Base No., Oxidation, Nitration)

Table 6: Contaminants (Soot, Water, Viscosity 40°C, Viscosity 100°C, Acid Number, Base No., Oxidation, Nitration)

Table 7: Fluid Properties (Soot, Water, Viscosity 40°C, Viscosity 100°C, Acid Number, Base No., Oxidation, Nitration)

Table 8: Additional Tests (List of tests)

Table 9: Flagged Results (List of flagged results)

6. Additional Tests

Additional tests will be performed based on the fluid type and test package ordered.

7. Flagged Results

Results are evaluated individually and are flagged with color-coding that aligns with the severity of the scale at the top of the report.

8. Links to Additional Sources

Test fields with blue font contain a hyperlink to a description and additional information about the test, including possible sources.

9. Baseline Samples and Maintenance Tracking

When a baseline sample is submitted for an account, it appears at the top of the report for components using that lubricant. Maintenance events tracked in HORIZON will also appear in the reports, but will be slotted based on date.

Historical Comments	12	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. FUEL DILUTION is at a MODERATE LEVEL; FUEL DILUTION possibly caused by excessive idling; Lubricant and filter change acknowledged. Report has been regenerated.
	13	Data indicates no abnormal findings. Resample at normal interval.
	14	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. FUEL DILUTION is at a MODERATE LEVEL; FUEL DILUTION possibly caused by excessive idling; Iron is at a MINOR LEVEL. IRON SOURCES in engines can be cylinder liners, iron pistons, hardened steel camshafts, crankshafts, gears, hardened rocker arms, valve bridges, alloyed steel cam follower rollers, etc. Lubricant and filter change acknowledged.
	15	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. FUEL DILUTION is at a MINOR LEVEL. FUEL DILUTION possibly caused by excessive idling; Lubricant and filter change acknowledged.

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10. Historical Comments

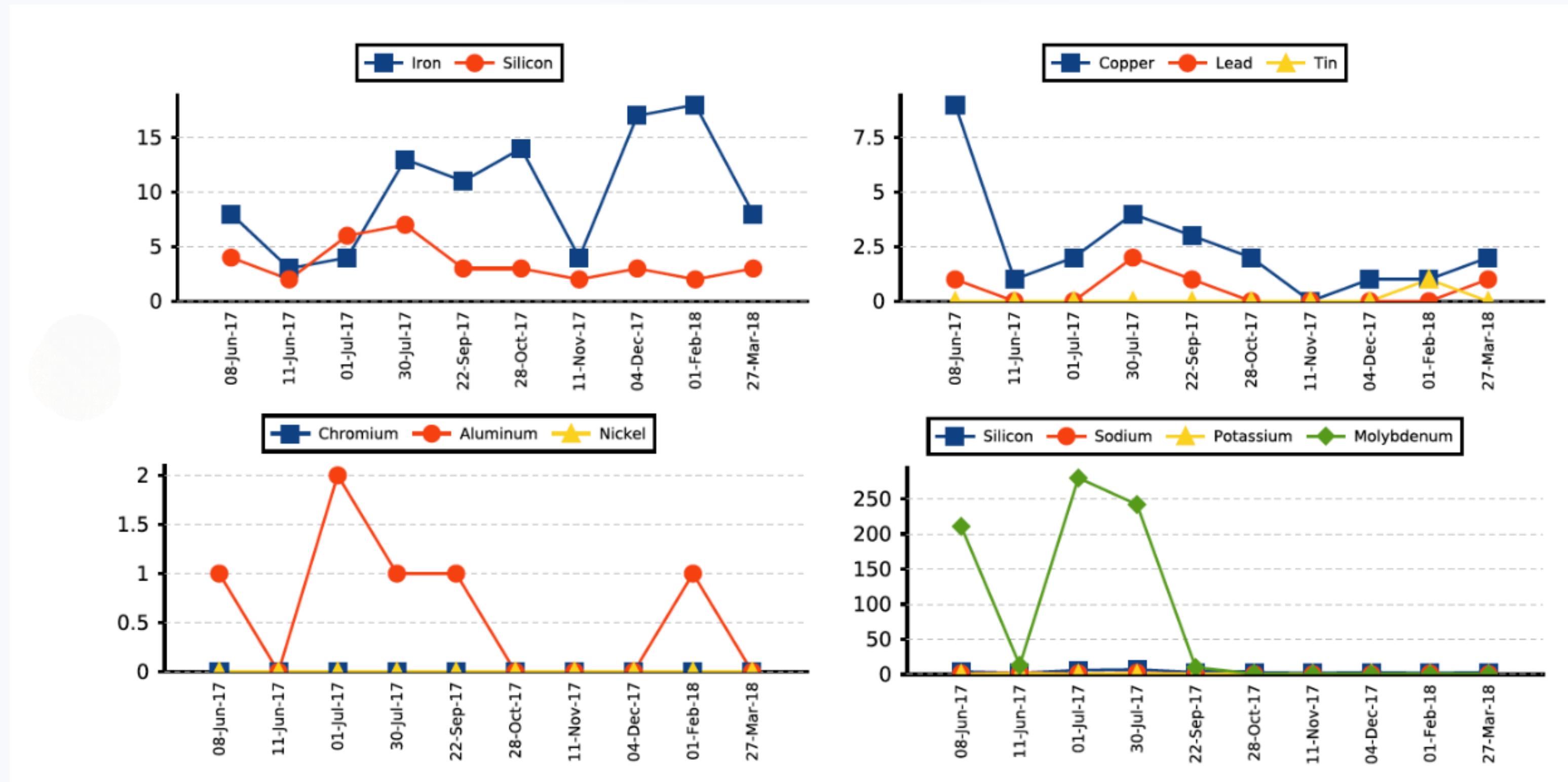
Comments from previous sample reports are included along with the severity of the overall report.

Posted Messages	01-Apr-2019	John Doe	Use kidney loop filter and re-sample.
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11. Historical Comments

Messages about the sample will be posted below the comments with a date stamp and the user who posted it.

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12. Sample Graphs

The graphs that display on the report can be turned on and off using the "Sample Report Display" settings under "My Settings" in your HORIZON account.

If you have additional questions, the Technical Library in HORIZON includes how-to-guides, videos and other resources to help you. You can also contact us at sales@purelubrication.co.uk