



# Southwest Spectro-Chem Labs

## WATER SOURCE DETERMINATION

Knowing the type of water that contaminates the oil, helps in the action steps to stop it's presence.



### OVERVIEW

- Controlling water/moisture content is key to machine reliability and lubricant longevity. When you have an excessive moisture issue, management starts with the identification of entry. Process leaks, cooling water, rain, steam/ condensate and contaminated bulk oil are all possibilities, but where you start looking?
- Our **Water Source Determination** test package will help identify the culprit and suggest corrective action.

### FEATURES

- Easy to read report
- Metals analysis
- Chemical properties analysis
- Concise comments and suggested corrective action
- Water experts available for consultation

\* Required - Contaminated sample with at minimum 50 mL free water (separated)

		Southwest Spectro-Chem Labs 1009 Louisiana St South Houston, TX 77587 (P)713.944.3694 (F)713.944.9881 www.weanalyzeoil.com			
<b>WATER SOURCE REPORT</b>					
<b>CUSTOMER:</b> 132452		<b>SAMPLE INFORMATION</b>			
<b>CUSTOMER:</b> WEANALYZEIL	<b>EQIP NO.:</b> 80001	<b>LAB SAMPLE:</b> 80001			
<b>LOCATION:</b> ROCKYH INDUSTON TX	<b>OIL USE ID:</b> PRDCK #3	<b>TIME ON OIL:</b> N/A			
<b>UNIT:</b> COMPRESSOR	<b>SAMPLE DATE:</b> 10/18/19	<b>REPORT DATE:</b> 10/18/19			
<b>DESCRIPTION:</b> SCRIBBY COMPRESSOR					
<b>SERIAL NO.:</b> N/A					
<b>Physical Properties</b>					
pH	11.51				
Conductivity	5120 umhos/cm				
Total Hardness	162 ppm				
<b>Anions</b>					
Chloride	505 ppm				
<b>Metals Analysis by ICP, ppm (ASTM D5185)</b>					
Aluminum	2	Calcium	55	Barium	0
Cobalt	0	Magnesium	2	Cadmium	0
Chromium	0	Sodium	295	Lead	0
Copper	1	Silicon	9	Lithium	0
Iron	6	Boron	2	Manganese	0
Nickel	0	Potassium	27	Sulfur	101
Zinc	0	Molybdenum	1		
Vanadium	0	Phosphorus	5		
<b>Comments:</b>					
This water solution contains a relatively high amount of dissolved solids (see sodium, calcium and potassium contents.) The high pH indicates this is chemically treated process water, such as a cooling tower or boiler water. The lack of boron (borates) suggests this is not likely a closed loop (i.e. chill or hot loop).					
<small>Southwest Spectro-Chem Labs and it's affiliates make no warranty for proper operation of any equipment associated with this report</small>					

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South Houston, TX 77587

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F 713.944.9881

W www.weanalyzeoil.com  
E info@swsclabs.com