

LABORATORY ANALYSIS



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EGS ELECTRICAL GROUP-APPLETON
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Department **MAINTENANCE**
Equipment No. **TAP WATER (X0002)**
System **Water**
Oil Type **{not provided} (--- GAL)**

DIAGNOSIS

Incoming water supply has significant microbial presence. Hardness level starting at 300.8 is about double what typical water quality in municipal sources is nationwide. Is the water source here well water rather than surface water? Critical systems can benefit greatly from a DI system. All component wear rates are normal. Bacteria class 5 is high. I collected the sample from a spigot with a hose, and perhaps should take care to collect directly from a tap as idel water in the hose could ferment in time, building microbial presence. No action recommended at this time, I will take better care with next sampling and ensure microbial issue is not relative to sampling method, collected through the hose.

SAMPLE INFORMATION

Lab Number	New	2307-00108	2207-00144	---
Date of Sample	(Typical)	29 Jun 2023	30 Jun 2022	---
Oil Added		UNK	UNK	---
Last Drain Date		--	--	---
Last Filter Service		--	--	---
Sample Point		---	---	---
Sample Status		SEVERE	ABNORMAL	---

PH (ASTM E-70)

pH	Scale 0-14	▲ 7.7	▲ 7.3	---
Ratio Rec'd	oil:water	AS REC'D	AS REC'D	---

HARDNESS (MG/L CaCO3)

Hardness (CaCO3)	mg/L	300.8	286.7	---
Grains		17.7	16.9	---

BACTERIA COUNT (CLASS RANGE 0 TO 6)

Bacteria Class	Scale 0-6	● 5	■ 0	---
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FUNGUS COUNT (CLASS RANGES: YEAST 0 TO 4/MOLD 0 TO 3)

Yeast Class	Scale 0-4	▲ 2	■ 0	---
Mold Class	Scale 0-3	■ 0	■ 0	---

ICP - WATER BASED (PPM)

Aluminum (Al)	ppm	<5	<5	---
Boron (B)	ppm	<5	<5	---
Barium (Ba)	ppm	<5	<5	---
Calcium (Ca)	ppm	71	67	---
Cadmium (Cd)	ppm	<5	<5	---
Cobalt (Co)	ppm	<5	<5	---
Chromium (Cr)	ppm	<5	<5	---
Copper (Cu)	ppm	<5	<5	---
Iron (Fe)	ppm	<5	<5	---
Magnesium (Mg)	ppm	30	29	---
Manganese (Mn)	ppm	<5	<5	---
Molybdenum(Mo)	ppm	<5	<5	---
Nickel (Ni)	ppm	<5	<5	---
Lead (Pb)	ppm	<5	<5	---
Antimony (Sb)	ppm	<5	<5	---
Silicon (Si)	ppm	8	7	---
Titanium (Ti)	ppm	<5	<5	---
Vanadium (V)	ppm	<5	<5	---
Zinc (Zn)	ppm	<5	<5	---
Phosphorus(P)	ppm	<5	<5	---
Sodium (Na)	ppm	■ 23	■ 17	---
Sulfur (S)	ppm	<5	7	---

Customer Id: ENC0369601
Sample No.: EN23070108
Lab Number: 23070108
Test Package: TEST



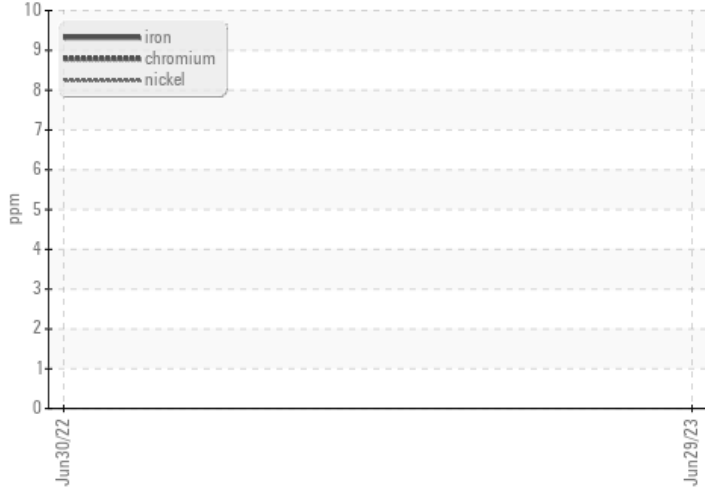
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FUEL REPORT

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

