

**FINNING**

FINNING CANADA LTD. - Fluid Analysis Laboratory, 10910-170th Street, Edmonton, AB, T5S 1H6, CANADA

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**CONTACT INFORMATION**LLOYD WOYCHUK  
EOG CANADA

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Email:

Interp By: Jason Broe

**EQUIPMENT**

CUSTOMER EQUIP NUM : 3608

SERIAL NUMBER : BEN00527

MODEL : G3608

MANUFACTURER : CAT

COMPANY NAME : EOG RESOURCES CALGARY

JOB SITE :

AREA:

REGION:

**SAMPLE INFORMATION**

COMPARTMENT NAME : AFTER COOLER

COMP SERIAL NUM :

COMPARTMENT MODEL :

LABEL#: 200165143

SHOP JOB NUM : 1899453

SAMPLE TYPE: COOLANT

SAMPLE SHIP TIME (days) : 8

SAMPLE LOCATION :

**No Action  
Required**

ALL ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL.

LAB #

N030-50057-2117

PROCESS DATE 2/26/2020

**CORROSION ELEMENTS - COOLANT FORMULATION**

| SAMPLE DATE | SAMPLE ID       | FLUID BRAND | TYPE | NO2  | NO3 | MoO4 | SiO3 | BO3 | PO4  | SAC | TT  | K    | Na   | Al | Cu | Fe | Pb | Sn | Zn | Ca | Mg |
|-------------|-----------------|-------------|------|------|-----|------|------|-----|------|-----|-----|------|------|----|----|----|----|----|----|----|----|
| 18-Feb-20   | N030-50057-2117 |             |      | 1712 | 456 | 1    | 46   | 41  | 6414 | 0   | 466 | 5259 | 1431 | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  |

**FREEZE/BOIL PROTECTION - CONTAMINATION**

| SAMPLE DATE | SAMPLE ID       | METER ( HR ) | METER ON FLUID | FLUID BRAND | TYPE | FLUID CHANGE | GL | FP  | BP  | pH  | CON  | CL | GLO | SO4 | TH | Foam |
|-------------|-----------------|--------------|----------------|-------------|------|--------------|----|-----|-----|-----|------|----|-----|-----|----|------|
| 18-Feb-20   | N030-50057-2117 | 71416        | 71416          |             |      | N            | 53 | -42 | 108 | 8.6 | 6431 | 7  | 782 | 6   | 0  | norm |

**COOLANT PHYSICALS**

| SAMPLE DATE | SAMPLE ID       | METER ( HR ) | METER ON FLUID | FLUID BRAND | TYPE | Color | App   | Odor | Oil  | PAmt |
|-------------|-----------------|--------------|----------------|-------------|------|-------|-------|------|------|------|
| 18-Feb-20   | N030-50057-2117 | 71416        | 71416          |             |      | Green | clear | norm | none | none |

Al = Aluminum, App = Appearance, BO3 = Borate, BP = Boil Point(°C), CL = Chloride, CON = Conductivity, Ca = Calcium, Cu = Copper, FP = Freeze Point(°C), Fe = Iron, GL = Glycol, GLO = Glycolate, K = Potassium, Mg = Magnesium, MoO4 = Molybdate, NO2 = Nitrite, NO3 = Nitrate, Na = Sodium, PAmt = Precipitate Amount, PO4 = Phosphate, Pb = Lead, SAC = Sebacic Acid, SO4 = Sulfate, SiO3 = Silicate, Sn = Tin, TH = Total Hardness, TT = Tolytriazole, Zn = Zinc

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.

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Interp By: Jason Broe

**EQUIPMENT**

CUSTOMER EQUIP NUM : 3608

SERIAL NUMBER : BEN00527

MODEL : G3608

MANUFACTURER : CAT

COMPANY NAME : EOG RESOURCES CALGARY

JOB SITE :

AREA:

REGION:

**SAMPLE INFORMATION**

COMPARTMENT NAME : WATER JACKET

COMP SERIAL NUM :

COMPARTMENT MODEL :

LABEL#: 200165123

SHOP JOB NUM : 1899453

SAMPLE TYPE: COOLANT

SAMPLE SHIP TIME (days) : 8

SAMPLE LOCATION :

**No Action  
Required**

PARTIALLY MAGNETIC SOLIDS MAY INDICATE LOCALIZED HOT SPOTS IN THE COOLING SYSTEM. ALL OTHER ANALYSIS READINGS ARE WITHIN THE EXPECTED RANGE FOR THIS COOLANT SAMPLE. CONTINUE TO SAMPLE AT THE RECOMMENDED INTERVAL.

LAB #

N030-50057-2116

PROCESS DATE 2/26/2020

**CORROSION ELEMENTS - COOLANT FORMULATION**

| SAMPLE DATE | SAMPLE ID       | FLUID BRAND | TYPE | NO2  | NO3 | MoO4 | SiO3 | BO3 | PO4  | SAC | TT  | K    | Na   | Al | Cu | Fe | Pb | Sn | Zn | Ca | Mg |
|-------------|-----------------|-------------|------|------|-----|------|------|-----|------|-----|-----|------|------|----|----|----|----|----|----|----|----|
| 18-Feb-20   | N030-50057-2116 |             |      | 1692 | 608 | 4    | 51   | 43  | 6592 | 0   | 512 | 5421 | 1616 | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  |
| 08-Jun-19   | N030-49165-2109 |             |      | 1751 | 533 | 3    | 51   | 40  | 6570 | 0   | 644 | 5128 | 1453 | 0  | 1  | 1  | 0  | 0  | 0  | 0  | 0  |
| 19-Nov-18   | N030-48330-2138 |             |      | 1689 | 546 | 1    | 50   | 37  | 6518 | 205 | 533 | 5364 | 1438 | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  |

**FREEZE/BOIL PROTECTION - CONTAMINATION**

| SAMPLE DATE | SAMPLE ID       | METER ( HR ) | METER ON FLUID | FLUID BRAND | TYPE | FLUID CHANGE | GL | FP  | BP  | pH  | CON  | CL | GLO  | SO4 | TH | Foam |
|-------------|-----------------|--------------|----------------|-------------|------|--------------|----|-----|-----|-----|------|----|------|-----|----|------|
| 18-Feb-20   | N030-50057-2116 | 71416        | 71416          |             |      | N            | 54 | -43 | 108 | 8.8 | 6425 | 8  | 974  | 20  | 0  | norm |
| 08-Jun-19   | N030-49165-2109 | 67238        | 67238          |             |      | N            | 54 | -43 | 108 | 8.4 | 5914 | 7  | 1084 | 0   | 2  | norm |
| 19-Nov-18   | N030-48330-2138 | 63138        | 63138          |             |      | N            | 54 | -43 | 108 | 8.0 | 5966 | 3  | 1505 | 42  | 0  | norm |

**COOLANT PHYSICALS**

| SAMPLE DATE | SAMPLE ID       | METER ( HR ) | METER ON FLUID | FLUID BRAND | TYPE | Color | App   | Odor | Oil  | PAmt  | PApp | PCol    | PProp |
|-------------|-----------------|--------------|----------------|-------------|------|-------|-------|------|------|-------|------|---------|-------|
| 18-Feb-20   | N030-50057-2116 | 71416        | 71416          |             |      | Green | clear | norm | none | trace | fine | brn sol | mag   |
| 08-Jun-19   | N030-49165-2109 | 67238        | 67238          |             |      | Green | clear | norm | none | none  |      |         |       |
| 19-Nov-18   | N030-48330-2138 | 63138        | 63138          |             |      | Green | clear | norm | none | none  |      |         |       |

Al = Aluminum, App = Appearance, BO3 = Borate, BP = Boil Point(°C), CL = Chloride, CON = Conductivity, Ca = Calcium, Cu = Copper, FP = Freeze Point(°C), Fe = Iron, GL = Glycol, GLO = Glycolate, K = Potassium, Mg = Magnesium, MoO4 = Molybdate, NO2 = Nitrite, NO3 = Nitrate, Na = Sodium, PAmt = Precipitate Amount, PApp = Precipitate Appearance, PO4 = Phosphate, PProp = Precipitate Property, Pb = Lead, SAC = Sebacic Acid, SO4 = Sulfate, SiO3 = Silicate, Sn = Tin, TH = Total Hardness, TT = Tolytriazole, Zn = Zinc

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