

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area Baytech - W00300 [PRESS 32] Machine Id A2308092

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample.

Wear

Copper ppm levels are noted.

Contamination {not applicable}

Fluid Condition

{not applicable}

| | | | A | ug2023 | | |
|--|------------------------|--|---|---|--------------------------------------|------------------------------|
| SAMPLE INFORM | 1ATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | E30000120 | | |
| Sample Date | | Client Info | | 16 Aug 2023 | | |
| Machine Age | hrs | Client Info | | 0 | | |
| Oil Age | hrs | Client Info | | 0 | | |
| Oil Changed | | Client Info | | N/A | | |
| Sample Status | | | | NORMAL | | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185(m) | >20 | 9 | | |
| Chromium | ppm | ASTM D5185(m) | >20 | <1 | | |
| Nickel | ppm | ASTM D5185(m) | >20 | <1 | | |
| Titanium | ppm | ASTM D5185(m) | | 0 | | |
| Silver | ppm | ASTM D5185(m) | | 0 | | |
| Aluminum | ppm | ASTM D5185(m) | >20 | <1 | | |
| Lead | ppm | ASTM D5185(m) | >20 | 3 | | |
| Copper | ppm | ASTM D5185(m) | >20 | 32 | | |
| Tin | ppm | ASTM D5185(m) | >20 | 0 | | |
| Antimony | ppm | ASTM D5185(m) | | 0 | | |
| Vanadium | ppm | ASTM D5185(m) | | 0 | | |
| Beryllium | ppm | ASTM D5185(m) | | 0 | | |
| Cadmium | ppm | ASTM D5185(m) | | 0 | | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185(m) | 5 | 0 | | |
| Barium | ppm | ASTM D5185(m) | 5 | <1 | | |
| Molybdenum | ppm | ASTM D5185(m) | 5 | 0 | | |
| Manganese | ppm | ASTM D5185(m) | | <1 | | |
| Magnesium | ppm | ASTM D5185(m) | 25 | 45 | | |
| Calcium | ppm | ASTM D5185(m) | 200 | 61 | | |
| Phosphorus | ppm | ASTM D5185(m) | 300 | 453 | | |
| Zinc | ppm | ASTM D5185(m) | 370 | 463 | | |
| Sulfur | ppm | ASTM D5185(m) | 2500 | 1411 | | |
| Lithium | ppm | ASTM D5185(m) | | <1 | | |
| | | | | | | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| | ppm | method ASTM D5185(m) | | current 2 | | history2 |
| CONTAMINANTS Silicon Sodium | ppm ppm | | | | | history2 |
| Silicon | | ASTM D5185(m) | | 2 | history1 | |
| Silicon Sodium | ppm | ASTM D5185(m) ASTM D5185(m) | >15 | 2 <1 | history1 | |
| Silicon Sodium Potassium Water | ppm ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) | >15 >20 | 2 <1 <1 | history1 | |
| Silicon Sodium Potassium Water | ppm ppm % ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* | >15 >20 >0.05 | 2 <1 <1 0.003 | history1 | |
| Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN | ppm ppm % ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* | >15 >20 >0.05 >500 | 2 <1 <1 0.003 26.2 | history1 | |
| Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN | ppm ppm % ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* method | >15 >20 >0.05 >500 limit/base | 2 <1 <1 0.003 26.2 current | history1 history1 | history2 |
| Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm | ppm ppm % ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* method ASTM D7647 | >15 >20 >0.05 >500 limit/base >5000 | 2 <1 <1 0.003 26.2 current 1866 | history1 history1 | history2 |
| Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm | ppm ppm % ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* method ASTM D7647 ASTM D7647 | >15 >20 >0.05 >500 limit/base >5000 >1300 | 2 <1 <1 0.003 26.2 current 1866 182 | history1 history1 | history2 |
| Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm | ppm ppm % ppm | ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* method ASTM D7647 ASTM D7647 ASTM D7647 | >15 >20 >0.05 >500 limit/base >5000 >1300 >160 | 2 <1 <1 0.003 26.2 current 1866 182 6 | history1 history1 | history2 |
| Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm | ppm ppm % ppm | ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | >15 >20 >0.05 >500 limit/base >5000 >1300 >160 >40 | 2 <1 <1 0.003 26.2 <u>current</u> 1866 182 6 2 | history1 history1 history1 | history2 |



45 6 Abnorm

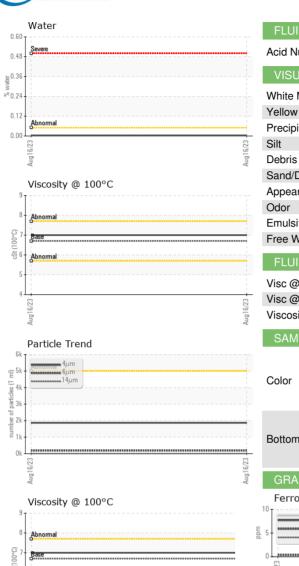
Aug16/23

> 42 -40 - Abnormal

38

Viscosity @ 40°C

OIL ANALYSIS REPORT



| White Metal scalar Visual* NONE Yellow Metal scalar Visual* NONE NONE Precipitate scalar Visual* NONE NONE Silt scalar Visual* NONE NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* NORML NORML Free Water scalar Visual* NORML NORML Visc @ 40°C cSt ASTM D7279(m) 46 44.7 Visc @ 100°C cSt ASTM D7279(m) 6.7 7 </th <th>VISUAL</th> <th>0 0</th> <th>ASTM D974*</th> <th>line it /le e e e</th> <th></th> <th>la la tanun d</th> <th>la ta ta mu</th> | VISUAL | 0 0 | ASTM D974* | line it /le e e e | | la la tanun d | la ta ta mu |
|--|--|----------|---------------|--------------------|----------------|---------------|-------------|
| Yellow Metal scalar Visual* NONE Precipitate scalar Visual* NONE NONE Silt scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Appearance scalar Visual* NORML NORML Pree Water scalar Visual* NORML NORML Free Water scalar Visual* >0.05 NEG Visc @ 40°C CSt ASTM0727%m 6.7 7 Visc @ 100°C CSt ASTM0727%m 6.7 7 SAMPLE IMAGES method Imit/base current historyl historyl Mon-ferrous Alloys | | | method | limit/base | current | history1 | history |
| Precipitate scalar Visual* NONE NONE | | | | | _ | | |
| Silt scalar Visual* NONE NONE | | | | | | | |
| Debris scalar Visual* NONE Sand/Dirt scalar Visual* NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Free Water scalar Visual* >0.05 NEG Free Water scalar Visual* NORML NORML File Water scalar Visual* NORM NORMIL File Water scalar Visual* NOR Visc @ 40°C cSt ASTM D2270* 97 114 SAMPLE IMAGES method Imit/base current history1 history1 Color Imit/base current history1 history1 history1 Mon-ferrous Alloys Iminificane Iminificane Im | | | | | | | |
| Sand/Dirt scalar Visual* NONE NONE | | | | | | | |
| Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.05 NEG Free Water scalar Visual* >0.05 NEG EUID PROPERTIES method limit/base current history1 histor Visc @ 40°C cSt ASTM 07279(m) 6.7 7 SAMPLE IMAGES method imit/base current history1 history1 history1 Color SAMPLE IMAGES method imit/base current history1 history1 Bottom Imit/base current history1 history1 history1 Imit/base Imit/base current history1 history1 history1 Color Imit/base current history1 history1 history1 Imit/base Imit/base current history1 history1 history1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | |
| Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.05 NEG Free Water scalar Visual* NEG FLUID PROPERTIES method limit/base current history1 history1 Visc @ 40°C cSt ASTM D2270* 97 114 SAMPLE IMAGES method limit/base current history1 history1 Color Imit/base current history1 history1 history1 SAMPLE IMAGES method limit/base current history1 history1 Color Imit/base current history1 history1 history1 Bottom Imit/base Particle Count Imit/base Imit/base Imit/base Imit/base Viscosity @ 40°C Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Outor Imit/base Imit/base Imit/base Imit/base Imit/base | | | | | | | |
| Emulsified Water scalar Visual* >0.05 NEG Free Water scalar Visual* NEG FLUID PROPERTIES method limit/base current history1 histo Visc @ 40°C cSt ASTM D7279(m) 46 44.7 Visc @ 100°C cSt ASTM D7279(m) 6.7 7 Viscosity Index (VI) Scale ASTM D2270* 97 114 SAMPLE IMAGES method limit/base current history1 histo Color no image no image Bottom no image no image GRAPHS Ferrous Alloys GRAPHS Ferrous Alloys Viscosity @ 40°C Viscosity @ 40°C Sample and a state of the state of | | | | | | | |
| Free Water scalar Visual* NEG FLUID PROPERTIES method limit/base current history1 history1 Visc @ 40°C cSt ASTM D7279(m) 46 44.7 Visc @ 100°C cSt ASTM D7279(m) 6.7 7 Visc @ 100°C cSt ASTM D7279(m) 6.7 7 SAMPLE IMAGES method imit/base current history1 histor Color Imit/base current history1 histor Bottom Imit/base Particle Count GRAPHS Particle Count Ferrous Alloys Imit/base Particle Count Imit and | | | | | | | |
| FLUID PROPERTIES method limit/base current history1 history1 Visc @ 40°C cSt ASTM D7279(m) 46 44.7 Visc @ 100°C cSt ASTM D7279(m) 6.7 7 Visc @ 100°C cSt ASTM D7279(m) 6.7 7 SAMPLE IMAGES method Imit/base current history1 histor Color imit/base current history1 histor Bottom imit/base no image no image no image Mon-ferrous Metals function function function function Mon-ferrous Metals function function function function function Mon-ferrous Metals function function function function function function function Mon-ferrous Metals function function <td></td> <td></td> <td></td> <td>>0.05</td> <td></td> <td></td> <td></td> | | | | >0.05 | | | |
| Visc @ 40°C cSt ASTM D7279(m) 46 44.7 Visc @ 100°C cSt ASTM D7279(m) 6.7 7 Viscosity Index (VI) Scale ASTM D2270° 97 114 SAMPLE IMAGES method imit/base current history1 histor Color no image no image Bottom no image no image GRAPHS Ferrous Alloys | | | visual | | NEG | | |
| Visc @ 100°C cSt ASTM D7279(m) 6.7 7 Viscosity Index (VI) Scale ASTM D2270° 97 114 SAMPLE IMAGES method imit/base current history1 histor Color imit/base current no image no image Bottom imit/base no image no image no image Viscosity @ 40°C imit/base current imit/base imit/base Manamatinitiation imit/base imit/base imit/base imit/base Manamatinitiation imit/base imit/base imit/base imit/base imit/base Manamatinitiation imit/base </td <td>FLUID PROPERTI</td> <td>ES</td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history</td> | FLUID PROPERTI | ES | method | limit/base | current | history1 | history |
| Viscosity index (VI) Scale ASTM D2270° 97 114 SAMPLE IMAGES method imit/base current history1 histor Color no image no image Bottom no image no image no image no image GRAPHS Ferrous Alloys Viscosity @ 40°C | Visc @ 40°C | cSt | ASTM D7279(m) | 46 | 44.7 | | |
| SAMPLE IMAGES method imit/base current history1 history1 Color Imit/base no image no image no image Bottom Imit/base Imit/base Imit/base Imit/base Imit/base Bottom Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Imit/base Bottom Imit/base Imit/bas | Visc @ 100°C | cSt | ASTM D7279(m) | 6.7 | 7 | | |
| Color no image no image Bottom no image no image GRAPHS Ferrous Alloys | Viscosity Index (VI) | Scale | ASTM D2270* | 97 | 114 | | |
| Color no image no image Bottom Particle Count GRAPHS Ferrous Alloys Mon-ferrous Metals Viscosity @ 40°C | SAMPLE IMAGES | | method | limit/base | current | historv1 | history |
| GRAPHS Ferrous Alloys Chomium Chomium Contraction Co | Color | | | | 051000 | no image | no image |
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| Viscosity @ 40°C | GRAPHS | | | | | | |
| Viscosity @ 40°C | Ferrous Alloys | | | | Particle Count | | |
| und 5 Crighting Non-ferrous Metals Und 190 Viscosity @ 40°C Street | | | | 491,520 | Ι | | |
| Non-ferrous Metals Viscosity @ 40°C | | | | 122,880 | 0 | | |
| Non-ferrous Metals Viscosity @ 40°C bhommal base bhommal base bhommal base bhommal base bhommal base bhommal base bhommal base bhommal base bhommal base bhommal base bhommal base bhommal base bhommal b | | | | 30,720 | 1 | | |
| $\mathbf{V}_{\text{iscosity}} (\mathbf{Q} + \mathbf{Q})^{\text{copper}} (\mathbf{Q} + \mathbf{Q})^{copper$ | | | | EZ (E 7,680 | Abnormal | | - |
| $\frac{40}{162} \frac{120}{160} 120$ | Aug 16 | | | Jed 1,920 | | | |
| $\mathbf{A}_{\text{intromal}}^{40} = \mathbf{A}_{\text{intromal}}^{10} $ | | | | · S을)이 480 | 1 | | |
| Viscosity @ 40°C $55 = 4 = 40^{\circ}$ C $55 = 40^{\circ}$ C 55 = 4 | | | | | | \$ | |
| Viscosity @ 40°C 550 Abnomal 550 Abnomal 35 Abnomal Abnomal 35 Ab | 20 - | | | aquina 30 | | | |
| Viscosity @ 40°C | 2. The second se | | | | | | |
| Viscosity @ 40°C | 0 | | | | | | |
| Viscosity @ 40°C 550 4μ 6μ 14μ 21μ 38μ Acid Number 4μ $bnormal$ $Base$ $bnormal$ $Base$ $bnormal$ $Base$ $bnormal$ bno | 16// | | | 16/2 | | | |
| 55 Abnormal 550 Abnormal 560 Abnormal 57 Abnormal 35 Abnormal | | | | A A | μ 6μ | 14µ 21µ | 38µ 71 |
| Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal Abnormal | | | | (B/H 1 00 | Acid Number | | |
| hoth a doi hot a | Abnormal | | | Q 1.00 | | | |
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| Aug16/23 | Abnormal | | | - g | Abnormal | | |
| Aug16/23 Aug16/23 Aug16/23 | ~ 4U † Q | | | Z 0.00 | 1 | | |
| Aug ¹ | | | | 3/23 Ac | 6/23 | | |
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| | 35 | | | Aug 16 | Aug 1 | | |
| y : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Environmental 360 Solutions | 35 | '5 Apple | by Line. Burl | | | onmental 360 | Solutions |

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Test Package : IND 2 (Additional Tests: KF, KV100, VI)

Diagnostician : Tatiana Sorkina

Report Id: CHECOB [WCAMIS] 02577480 (Generated: 08/28/2023 12:15:13) Rev: 1

CALA

Unique Number : 5630540

ISO 17025:2017 Accredited Laboratory

Contact/Location: Tatiana Sorkina - CHECOB

CA K9A 5H5

Contact: Tatiana Sorkina

tsorkina@e360s.ca

T: (800)263-3939

F: (905)373-4950