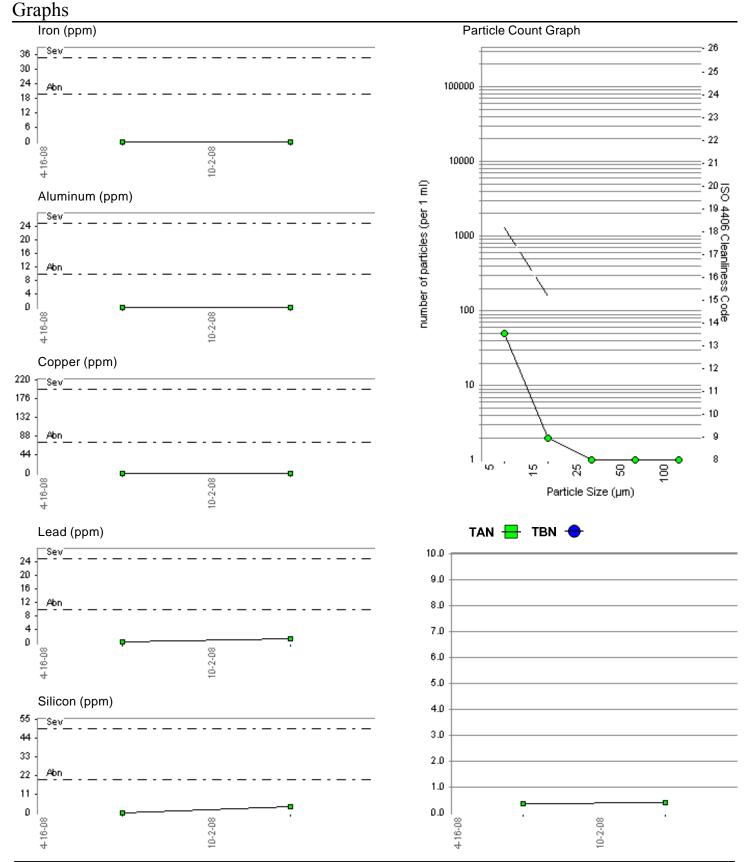


Basalite CUBER - Hydraulic System

Serial No : [n/a] Date Rec'd : Oct 15, 2008 Comp Make : [n/a] Cust. Ref No. : [n/a] Sample Date : Oct 2, 2008 Reconstruction Sample Date Out Red With Water Sample Date Out 7, 2000 2455 hrs Resonance of the rest service interval to monitor. Sample Date Out 1 2000 2455 hrs Time on Dir 0 0 2455 hrs Time on Pitr 0 0 2455 hrs Old Maint - not ckg not deg Filter Maint - not ckg not deg Out ckg not deg Sample Date 04/16/08 Current Abn Silicon 0.03 3.8 2.0 Potassium 0.0 13 20 Potassium 0.0 0.1 3.00 Mate c'\$0 -0.1 0.1	Unit Make : $\{n/a\}$		Basa	alite CUBER - Hyd	raulic S	System
Comp Make : [n/a] Sample Date : Oct 2, 2008 Comp Model : [n/a] Stub No. : KL-M2201344 Diagnostician : Jonathan Hester Resample at the next service interval to monitor. Sample Date : Odd/1608 Current UOM Time on Oil 2000 2455 hrs Time on Oil 2000 2455 hrs Time on Oil 0 000 2455 hrs Time on Oil 2000 2455 hrs CONTAMINATION Sample Date 0 04/1608 Current Abn Silion 0.05 38 20 Potassium 0.00 0.15 38 20 Potassium 0.00 13 20 Potassium 0.00 0.13 20 Potassium 0.00 13 20 Potassium 0.00 13 20 Potassium 0.00 13 20 Potassium 0.00 13 20 20		Serial No	$\cdot \{n/a\}$	Date Rec'd · Oo	t 15 2008	
Comp Model : [n/a] Stub No. : KL-M220134 Diagnostician <th: hester<="" jonathan="" th=""> RECOMMENDATION Resample at the next service interval to monitor. Sample Date 04/16/08 Current Model Time on Unit 2000 2455 hrs fms not cheg not cheg<td></td><td></td><td colspan="2"></td><td></td></th:>						
Barbon Date 04/16/08 Current UOM Resample at the next service interval to monitor. Sample Date 04/16/08 Current UOM Time on Oil 2000 2455 hrs Insc OI 2000 2455 hrs Time on Oil 001 2000 2455 hrs Insc OI 2000 2455 hrs Insc OI 2000 2455 hrs Insc OI 2455 hrs Insc OI 02455 hrs Insc OI 02455 hrs Insc OI 02455 hrs Insc OI Current Main Insc 02455 hrs OI OI Sample Date 04/16/08 Current Main Sample Date 04/16/08 OI OI Insc	•••••P		· · · ·	-	,	oster
Time on Unit 2000 2455 hrs Time on Oli 2000 2455 hrs Time on Oli 0 2455 hrs Other on Pitron 0 2455 hrs Oil Maint not chg n/a Filter Maint not chg n/a Sample Date 04/16/08 Current Abn Microbit 5 20 > Potassium 0.0 1.3 20 Potassium 0.0 1.3 20 Potassium 0.0 1.0 Sample Date 04/16/08 Current Base Boron 0.0 0.0 0 ISO 4406(c) 1.713 1.34	F in ()	5100 110.		<u> </u>		
Resample at the next service interval to monitor. Time on Oil 2000 2455 hrs Time on Oil 0 2455 hrs OCONTAMINATION not chg not Sample Date 04/16/08 Current Abit Determination of any contamination in the component. The amount and size of particulates present in the system is acceptable. Sample Date 04/16/08 Current Abit Vater (%) <-0.1	RECOMMENDATION		*			
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Resample at the next service interval					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						
Filter Maint. not chg not chg CONTAMINATION Sample Date 04/16/08 Current Abn There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. Sample Date 04/16/08 Current Abn Water (%) <0.1						
Sample Date 04/16/08 Current Abn There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. Sample Date 04/16/08 Current Abn Water (%) <0.1				•	/	
Silicon 0.5 3.8 20 Potassium 0.0 1.3 20 Potassium 0.0 1.3 20 Water (%) <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <0.1 <					÷	
There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. Potassium 0.0 1.3 20 Water (%) <0.1 <0.1 0.1	CONTAMINATION		÷			
amount and size of particulates present in the system is acceptable. Water (%) <0.1 <0.1 $>4\mu(m(c)$ 15098 2425 $$ $>4\mu(m(c)$ 15098 2425 $>6\mu(m(c)$ 1111 50 $>14\mu(m(c)$ 56 2 $>21\mu(m(c)$ 10 0 $>38\mu(m(c)$ 1 0 $>70\mu(m(c)$ 0 0 $>38\mu(c)$ 17/13 1388 >17/14 Sample Date 04/16/08 Current Base Boron 0.0 0.0 0 0 0 0 Oil Type: 150 GAL of SHELL TELLUS 46 Sample Date 04/16/08 Current Base Magnesium 11 8.6 0 0 0 0 Molybdenum 0.0 0.6 0 0 0 0 0 Visc 40°C (cSt) 46.42 46.63 44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<			Datagaium			
	amount and size of particulates prese	nt in the system is acceptable				
$ \frac{ 4\mu m(c) }{ 2 4\mu m(c) } = \frac{ 56 2 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 } \frac{ 10 }{ 10 $			• • • /			
$ >21 \mu m(c) \\>38 \mu m(c) \\>70 \mu m(c) \\ C \\ $			• • • •			
$ \frac{>38 \mu m(c) & 1 & 0 & \\ >70 \mu m(c) & 0 & 0 & \\ ISO 4406(c) & 17/13 & 13/8 & >17/14 \\ \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c } \hline \begin{tabular}{ c c } \hline \hline \begin{tabular}{ c c } \hline \begin$,			
$ >70 \mu m(c) \\ ISO 4406(c) \\ 17/13 \\ 13/8 \\ >17/14 \\ \hline \\ 0IL CONDITION \\ \hline \\ Oil CONDITION \\ \hline \\ Oil Type: 150 GAL of SHELL TELLUS 46 \\ The condition of oil is suitable for further service. \\ \hline \\ Calcium \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $,	1		
OIL CONDITION Sample Date 04/16/08 Current Base Boron 0.0 0.0 0.0 4.3 Dil Type: 150 GAL of SHELL TELLUS 46 Barium 0.0 0.0 0 The condition of oil is suitable for further service. Calcium 52 47 49 Magnesium 111 8.6 0			,	0	0	
Boron 0.0 0.0 4.3 Oil Type: 150 GAL of SHELL TELLUS 46 Barium 0.0 0.0 0 The condition of oil is suitable for further service. Galcium 52 47 49 Magnesium 11 8.6 0 0 0 0 0 Magnesium 11 8.6 0 0 0.0 0.6 0 Molybdenum 0.0 0.0 0.6 0 0 0.0 0 </td <td></td> <td></td> <td>ISO 4406(c)</td> <td>17/13</td> <td>13/8</td> <td>>17/14</td>			ISO 4406(c)	17/13	13/8	>17/14
Boron 0.0 0.0 4.3 Oil Type: 150 GAL of SHELL TELLUS 46 Barium 0.0 0.0 0 The condition of oil is suitable for further service. Galcium 52 47 49 Magnesium 11 8.6 0 0 0 0 0 Magnesium 11 8.6 0 0 0.0 0.6 0 Molybdenum 0.0 0.0 0.6 0 0 0.0 0 </td <td>OIL CONDITION</td> <td></td> <td>Sample Date</td> <td>04/16/08</td> <td>Current</td> <td>Base</td>	OIL CONDITION		Sample Date	04/16/08	Current	Base
Calcium 52 47 Magnesium 11 8.6 Molybdenum 0.0 0.6 Phosphorus 256 224 Sulfur 4813 4302 2062 Zinc 293 267 328 Visc 40°C (cSt) 46.42 46.63 44 Visc 100°C (cSt) 46.42 46.63 44 Visc 100°C (cSt) AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) Icomponent wear rates are normal. Sample Date 00/16/08 Current Abn PQ Iron 0.02 0.4 20 Nickel 0.0 0.0 0.2 Iron 0.02 0.4 20 Iron 0.0 0.0 0.2 Iron 0.0 0.0 0.2 Iron 0.0 0.0 0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Magnesium 11 8.6 0 Molybdenum 0.0 0.6 0 Phosphorus 256 224 256 Sulfur 4813 4302 2062 Zinc 293 267 328 Visc 40°C (cSt) 46.42 46.63 44 Visc 100°C (eSt) 6.6 AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) 0.384 0.438 Iron 0.2 0.4 20 Nickel 0.0 0.2 Iron 0.2 0.4 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Copper 0.9 1.0 75 Aluminum 0.0 0.0 10	Oil Type: 150 GAL of SHELL TELL	US 46	Barium	0.0	0.0	0
Magnesium 11 8.6 0 Molybdenum 0.0 0.6 0 Phosphorus 256 224 256 Sulfur 4813 4302 2062 Zinc 293 267 328 Visc 40°C (cSt) 46.42 46.63 44 Visc 100°C (eSt) 6.6 AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) 0.384 0.438 Iron 0.2 0.4 20 Nickel 0.0 0.2 Iron 0.0 0.0 10 Nickel 0.0 0.0 Chromium 0.0 0.0 Copper 0.9 1.0 Aluminum 0.0 0.3 10	The condition of oil is suitable for fur	ther service.	Calcium	52	47	49
Phosphorus 256 224 256 Sulfur 4813 4302 2062 Zinc 293 267 328 Visc 40°C (cSt) 46.42 46.63 44 Visc 100°C (cSt) 6.6 AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) 0.384 0.438 Iron 0.2 0.4 20 Nickel 0.0 0.2 Iron 0.2 0.4 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Copper 0.9 1.0 75 Aluminum 0.0 0.0 10			Magnesium	11	8.6	0
Sulfur 4813 4302 2062 Zinc 293 267 328 Visc 40°C (cSt) 46.42 46.63 44 Visc 100°C (cSt) 6.6 AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) 0.384 0.438 It component wear rates are normal. Sample Date 04/16/08 Current Abn PQ Iron 0.2 0.4 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Aluminum 0.0 0.0 10			-			
Zinc 293 267 328 Visc 40°C (cSt) 46.42 46.63 44 Visc 100°C (cSt) 6.6 AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) Muse and the second						
Visc 40°C (cSt) 46.42 46.63 44 Visc 100°C (cSt) 6.6 AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) WEAR Sample Date 04/16/08 Current Abn PQ Iron 0.2 0.4 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Copper 0.9 1.0 75 Aluminum 0.0 0.0 10						
Visc 100°C (cSt) 6.6 AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) WEAR Sample Date 04/16/08 Current Abn PQ Iron 0.2 0.4 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Aluminum 0.0 0.3 10 Tin 0.0 0.0 10						
AN (mg/KOH/g) 0.384 0.438 BN (mg/KOH/g) WEAR Sample Date 04/16/08 Current Abn All component wear rates are normal. Sample Date 04/16/08 Current Abn Iron 0.2 0.4 20 Iron 0.0 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Copper 0.9 1.0 Tin 0.0 0.0 10						
BN (mg/KOH/g) WEAR Sample Date 04/16/08 Current Abn PQ Image: Constraint of the second s						
WEAR Sample Date 04/16/08 Current Abn All component wear rates are normal. PQ Iron 0.2 0.4 20 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Copper 0.9 1.0 75 Aluminum 0.0 0.0 10 10 10 10				0.364	0.438	
PQ All component wear rates are normal. Iron 0.2 0.4 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Copper 0.9 1.0 75 Aluminum 0.0 0.0 0.3 10 Tin 0.0 0.0 10						
Iron 0.2 0.4 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Copper 0.9 1.0 75 Aluminum 0.0 0.3 10 Tin 0.0 0.0 10	WEAR		-	04/16/08		
Iron 0.2 0.4 20 Nickel 0.0 0.2 Chromium 0.0 0.0 10 Titanium 0.0 0.0 Copper 0.9 1.0 75 Aluminum 0.0 0.3 10 Tin 0.0 0.0 10	All component wear rates are normal.					
Chromium0.00.010Titanium0.00.0Copper0.91.075Aluminum0.00.310Tin0.00.010						
Titanium0.00.0Copper0.91.075Aluminum0.00.310Tin0.00.010						
Copper0.91.075Aluminum0.00.310Tin0.00.010						
Aluminum 0.0 0.3 10 Tin 0.0 0.0 10						
Tin 0.0 0.0 10			* *			

ReportID:BASTIG-02268807 pg.1 of 2 (©2013-WearCheck)

NOTE: all elemental values reported in parts per million (ppm)



If you have any questions concerning this sample report (work order no02268807) please call 1-800-237-1369.



ATTN: MARK MOONEY BASALITE - TIGER PLANT 2600 BOEING WAY CARSON CITY, NV 89706 (775)888-8088 FAX (775)887-1025