

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



BELL B50E B93A650EP03408200

Wet Disc Brake

SYNERGY 80W90 (--- GAL)

Test         UOM         Method         Unit&r         Current         History 1         History 2           Sample batt the next service interval to monitor.         Sample Date         Client Info         10								
Sample Date         Client Indo         13 May 202             Machine Age         hr         Client Indo         1863             Machine Age         hrs         Client Indo         0              Filter Age         hrs         Client Indo         Changed              VEAR         Sample Status          NORMAL              All component wear rates are normal.         PQ          ASTM 05145               Nickel         pm         ASTM 05145                 All component wear rates are normal.         PQ          ASTM 05145	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date         Clint Info         13 May 204         n         n           Machine Age         hs         Clint Info         1863             Machine Age         hs         Clint Info         1863             Filter Age         hs         Clint Info         0              Filter Age         hs         Client Info         0         0	Resample at the next service interval to monitor.	Sample Number		Client Info		BE0018505		
Oil Age     nice     Client Info     0 <td< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>13 May 2024</th><th></th><th></th></td<>		Sample Date		Client Info		13 May 2024		
Filte Age OI Changed DI ChangedClient Info Changed0OI Changed Filter Changed Sample StatusClient Info Client InfoChangedWEARPQASTM DEIM25All component wear rates are normal.PQASTM DEIM2061NormanpmASTM DEIM00NormanpmASTM DEIM00NormanpmASTM DEIM00NormanpmASTM DEIM00NormanpmASTM DEIM00NormanpmASTM DEIM100All component wear rates are normal.PinASTM DEIM100NormanpmASTM DEIM100All component wear rates are normal.PinASTM DEIM100NormanpmASTM DEIMPinASTM DEIM100All component wear rates are normal.PinASTM DEIMPinASTM DEIM11All component wear rates are normal.PinASTM DEIMPinASTM DEIM111All component wear rates are normal.Pin<		Machine Age	hrs	Client Info		1863		
Oil Changed     Client Info     Changed      Changed         Filter Changed     Client Info     Client Info     NORMA         WEAR     Samlo Status      NORMA          All component wear rates are normal.     Norman     pm     ASTM D3185           Othomade     pm     ASTM D3185            Namo     ASTM D3185             Othomade     pm     ASTM D3185            Titanium     pm     ASTM D3185            Silver     pm     ASTM D3185            Quandum     pm     ASTM D3185             Vanadum     pm     ASTM D3185             Vanadum     pm     ASTM D3185             Vanadum     pm     ASTM D3185		Oil Age	hrs	Client Info		0		
Filter Ohanged Sample Statu:     Client Into     Indextore     Filter Ohanged Sample Statu:     Client Into     Sample Statu:     Sample St		Filter Age	hrs	Client Info		0		
Sample Status       PQ       STM 281/2       22       3         WEAR       PQ       STM 281/2       22       3       3         All component wear rates are normal.       Iron       pm       STM 261/2       3       4       3         Nickel       pm       STM 261/2       0       0       0       3       3         Nickel       pm       STM 261/2       0       0       0       3       3         Nickel       pm       STM 261/2       0       0       0       3       3         Nickel       pm       STM 261/2       0		Oil Changed		Client Info		Changed		
WEAR         PQ         ASTM D3184//         25         1         1           All component wear rates are normal.         Inon         ppn         ASTM D316m         >20         61             Nickel         ppn         ASTM D316m         >10         -1             Nickel         ppm         ASTM D316m         >10         0             Nickel         ppm         ASTM D316m         0         0             Nickel         ppm         ASTM D316m         0         0             Silver         ppm         ASTM D316m         10         3             Aluminum         ppm         ASTM D316m         70         3             Aluminum         ppm         ASTM D316m         70         3             Auduum         ppm         ASTM D316m         0         1             Value         value         scalar         Visual         NONE         NONE             Vallow Metal         scalar		Filter Changed		Client Info		Changed		
All component wear rates are normal.       Iron       ppm       ASTM 0515m       >20       61          Chromium       ppm       ASTM 0515m       >10       <1          Nickel       ppm       ASTM 0515m       >10       0          Nickel       ppm       ASTM 0515m       >10       0          All uninum       ppm       ASTM 0515m       >10       0          All uninum       ppm       ASTM 0515m       >10       3          Copper       ppm       ASTM 0515m       >10       3          Copper       ppm       ASTM 0515m       >10       3          Copper       ppm       ASTM 0515m       >10       3          Varadium       ppm       ASTM 0515m       >10       1          Varadium       ppm       ASTM 0515m       >10       1          Varadium       ppm       ASTM 0515m       >10       0          Varadium       ppm       ASTM 0515m       >20       3		Sample Status				NORMAL		
All component wear rates are normal.       Iron       ppm       ASTM 0515m       >20       61          Chromium       ppm       ASTM 0515m       >10       <1          Nickel       ppm       ASTM 0515m       >10       0          Nickel       ppm       ASTM 0515m       >10       0          All uninum       ppm       ASTM 0515m       >10       0          All uninum       ppm       ASTM 0515m       >10       3          Copper       ppm       ASTM 0515m       >10       3          Copper       ppm       ASTM 0515m       >10       3          Copper       ppm       ASTM 0515m       >10       3          Varadium       ppm       ASTM 0515m       >10       1          Varadium       ppm       ASTM 0515m       >10       1          Varadium       ppm       ASTM 0515m       >10       0          Varadium       ppm       ASTM 0515m       >20       3	WEAR	PQ		ASTM D8184		25		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			ppm	ASTM D5185m	>20			
Nickel         ppm         ASTM DS18m         10         0             Titanium         ppm         ASTM DS18m         -              Silver         ppm         ASTM DS18m         -         0             Aluminum         ppm         ASTM DS18m         -10         3             Lead         ppm         ASTM DS18m         -10         3             Vanadium         ppm         ASTM DS18m         -10         3             Vanadium         ppm         ASTM DS18m         -10              Vanadium         ppm         ASTM DS18m         -10              Vanadium         ppm         ASTM DS18m         -10	All component wear rates are normal.	Chromium						
TitaniumppmASTM D5185mcli.eli.eli.elSilverppmASTM D5185mppmASTM D5185mi.eli.eli.elAluminumppmASTM D5185mi.el3.0i.eli.elLeadppmASTM D5185mi.el3.0i.eli.elCopperppmASTM D5185mi.eli.eli.eli.elTinppmASTM D5185mi.eli.eli.eli.elVanadiumppmASTM D5185mi.eli.eli.eli.elVanadiumppmASTM D5185mi.eli.eli.eli.elVanadiumppmASTM D5185mi.eli.eli.eli.elValadiumppmASTM D5185mi.eli.eli.eli.elValadiumppmASTM D5185mi.eli.eli.eli.elValadiumppmASTM D5185mi.eli.eli.eli.elValadiumppmASTM D5185mi.eli.eli.eli.elValadiumppmASTM D5185mi.eli.eli.eli.elThere is no indication of any contamination in the oil.PotassiumppmASTM D5185mi.eli.eli.elSand/D16tscalarVisualNORENOREi.eli.eli.eli.elSand/D16tscalarVisualNORENOREi.eli.eli.elDobrscalarVisualNORENORE		Nickel		ASTM D5185m	>10	0		
Silver     ppm     ASTM D5185m     0     0.0        Aluminum     ppm     ASTM D5185m     >10     3.0        Lead     ppm     ASTM D5185m     >10     3.0        Cooper     ppm     ASTM D5185m     >10     3.0         Cooper     ppm     ASTM D5185m     >10     6.1         Tin     ppm     ASTM D5185m     >10     6.1         Vanadium     ppm     ASTM D5185m     >10     6.1         Vanadium     ppm     ASTM D5185m     >10     6.1         Value     scalar     Visual     NONE     NONE     6.0        Value     value     Visual     NONE     NONE         Siltor     scalar     Visual     NONE     NONE         Debrd     scal		Titanium				<1		
AluminumpmASTM D518m-103LeadpmASTM D518m-103CopperpmASTM D518m-7511TinaniumpmASTM D518m-7041VanadupmASTM D518m-704VandupmASTM D518mNONENONEWhite MetalscalarVisualNONENONEVelow MetalscalarVisualNONEASTM D518m-203There is no indication of any contamination in the oil.SiliconpmASTM D518m-203DetrisscalarVisualNONENONEASTMSad/D7ittscalarVisualNONENONEASTMDebrascalarVisualNONENONEASTMSad/D7ittscalarVisualNONENONENONEASTM <td< th=""><th>Silver</th><th></th><th>ASTM D5185m</th><th></th><th>0</th><th></th><th></th></td<>		Silver		ASTM D5185m		0		
Lead         pp         ASTM D5168         >10         3             Copper         pm         ASTM D5168         >75         1             Tin         pp         ASTM D5188         >10         <1             Vanadium         pp         ASTM D5188         >10         <1             White Metal         scalar         Visual         NONE         NONE             Yolow Metal         scalar         Visual         NONE         9             There is no indication of any contamination in the oil.         Silicon         pp         ASTM D5188         >20         9             Water         WC Method         >.01         NEG              Sand/Dirt         scalar         Visual         NONE         NONE             Appearance         scalar         Visual         NORE              The condition of the oil is acceptable for the time in service.         Sodium         pm         ASTM D5185		Aluminum	ppm	ASTM D5185m	>10	3		
Tin     ppm     ASTM D5185     >10     <1         Vanadium     ppm     ASTM D5185     0         White Metal     scalar     *Visual     NONE     NONE         White Metal     scalar     *Visual     NONE     NONE         CONTAMINATION     Silicon     ppm     ASTM D5185     >20     9         There is no indication of any contamination in the oil.     Potassium     ppm     ASTM D5185     >20     3         Water     Water     WC Method     >.0.1     NEG          Silicon     scalar     Visual     NONE     NONE         Silicon     scalar     Visual     NONE     NONE         Silicon     scalar     Visual     NONE     NONE         Solicon     scalar     Visual     NONE     NONE         Solicon     scalar     Visual     NORM     NONE         Solicon     scalar     Visual     NORM     NONE         Mopearance     scalar		Lead		ASTM D5185m	>10	3		
Vanadium White MetalSoftSTM D5180I0III		Copper	ppm	ASTM D5185m	>75	1		
White Metal Yellow Metalscalar'VisualNONENONEIIIICONTAMINATIONSiliconppmASTM D5185m>203IIIIThere is no indication of any contamination in the oil.PotassiumppmASTM D5185m>203III		Tin	ppm	ASTM D5185m	>10	<1		
Yellow Metalscalar'VisualNONENONECONTAMINATIONSiliconppmASTM D5185m>-209PotassiumppmASTM D5185m>-203WaterVMC Method>-0.1NONE6Siltoscalar'VisualNONENONE6Siltoscalar'VisualNONENONE6Debrisscalar'VisualNONENONE6Appearancescalar'VisualNORENOREAppearancescalar'VisualNORENOREMultifed Waterscalar'VisualNORENOREThe condition of the oil is acceptable for the time in service.SodiumppmASTM D5185mI8BariumppmASTM D5185mI6-1IIIIIMolybdenumppmASTM D5185mI6-1IIIIIIMolybdenumppmASTM D5185mI6-1IIIIIIIIIIIIIIIIIIIIIIIIII<		Vanadium	ppm	ASTM D5185m		0		
CONTAMINATION       Silicon       ppm       ASTM D5185n       >20       9           There is no indication of any contamination in the oil.       Potassium       ppm       ASTM D5185n       >20       3           Water       Water       WC Method       >.01       NEG           Silt       scalar       'Visual       NONE       NONE           Debris       scalar       'Visual       NONE       NONE           Sand/Dirt       scalar       'Visual       NONE       NONE           Appearance       scalar       'Visual       NORM       NORM           FLUID CONDITION       Norman       NORM       NORM		White Metal	scalar	*Visual	NONE	NONE		
Potassium     ppm     ASTM D516m     >20     3        Water     WC Method     >.01     NREG         Silt     scalar     *Visual     NONE     NONE        Debris     scalar     *Visual     NONE     NONE        Sand/Dirt     scalar     *Visual     NONE     NONE        Appearance     scalar     *Visual     NORE         Odor     scalar     *Visual     NORE         Odor     scalar     *Visual     NORE         Odor     scalar     *Visual     NORE         FLUID CONDITION     Sodium     ppm     ASTM D5185m         Renorm     ppm     ASTM D5185m          Molybdenum     ppm     ASTM D5185m          Maganeseu     ppm     ASTM D5185m          Maganesium     ppm     ASTM D5185m          Maganesium     ppm     ASTM D5185m          Maganesium     ppm		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium     ppm     ASTM D516m     >20     3        Water     WC Method     >.01     NREG         Silt     scalar     *Visual     NONE     NONE        Debris     scalar     *Visual     NONE     NONE        Sand/Dirt     scalar     *Visual     NONE     NONE        Appearance     scalar     *Visual     NORE         Odor     scalar     *Visual     NORE         Odor     scalar     *Visual     NORE         Odor     scalar     *Visual     NORE         FLUID CONDITION     Sodium     ppm     ASTM D5185m         Renorm     ppm     ASTM D5185m          Molybdenum     ppm     ASTM D5185m          Maganeseu     ppm     ASTM D5185m          Maganesium     ppm     ASTM D5185m          Maganesium     ppm     ASTM D5185m          Maganesium     ppm								
Water       WC Method sol.1       NEG          Silt       scalar       *Visual       NONE       NONE          Debris       scalar       *Visual       NONE       NONE          Sand/Dirt       scalar       *Visual       NONE       NONE          Appearance       scalar       *Visual       NOR       NORML          Odor       scalar       *Visual       NORML           Odor       scalar       *Visual       NORML           Odor       scalar       *Visual       NORML           Emulsified Water       scalar       *Visual       NORML           Emulsified Water       scalar       *Visual       NORML           Boron       ppm       ASTM D5185m       Image: Image								
Siltscalar"VisualNONENONEIIDebrisscalar"VisualNONENONEIISand/Dirtscalar"VisualNONENONEIISand/Dirtscalar"VisualNONENONEIIAppearancescalar"VisualNORUNOREIIOdorscalar"VisualNORUNOREIIOdorscalar"VisualNORUNOREIIEmulsified Waterscalar"VisualNORUIIBoronppmASTM D5185mIIIBariumppmASTM D5185mIIIMolybdenumppmASTM D5185mIIIMagnaeseppmASTM D5185mIIIMagnesiumppmASTM D5185mIIICalciumppmASTM D5185mIIIPhosphorusppmASTM D5185mIIIZincppmASTM D5185mIIIASTM D5185mIIIIIResppmASTM D5185mIIIResppmASTM D5185mIIIResppmASTM D5185mIIIResppmASTM D5185mIII			ppm					
Debrisscalar*VisualNONENONESand/Ditscalar*VisualNONENONEAppearancescalar*VisualNORLNORMLOdorscalar*VisualNORMNORMLDebrisscalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLEmulsified Watescalar*VisualNORNORMLSodiumppmASTM D5185S8BoronppmASTM D5185Is158BariumppmASTM D5185Is158MolybdenumppmASTM D5185IsIsIsIsMaganeseppmASTM D5185IsIsIsIsMagnesiumppmASTM D5185IsIsIsIsPhosphorusppmASTM D5185IsIsIsIsIsonppmASTM D5185IsIsIsIsIsonppmASTM D5185IsIsIsIsIsonppmASTM D5185IsIsIsIsIsonppmASTM D5185IsIsIsIsIsonppmASTM D5185IsIsIsIsIsonppmASTM D5185IsIsIsIsIsonppmASTM D5185 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLOdorscalar*VisualNORMLNORMLEmulsifiedWaterscalar*VisualNORMNORMLNEGSodiumppmASTM D5185mS8BoronppmASTM D5185m1585BariumppmASTM D5185m12158MolybdenumppmASTM D5185m11MaganeserppmASTM D5185m11CalciumppmASTM D5185m11138PhosphorusppmASTM D5185mI1138CalciumppmASTM D5185mI1138PhosphorusppmASTM D5185mI501IThosphorusppmASTM D5185mI501I								
Appearance Odorscalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Watescalar*Visual>0.1NEGFLUID CONDITIONSodiumppmASTM D5185m8BoronppmASTM D5185m11581BariumppmASTM D5185m11MolybdenumppmASTM D5185m11MagnesiumppmASTM D5185m11MagnesiumppmASTM D5185m11MagnesiumppmASTM D5185m111381PhosphorusppmASTM D5185m111381TincppmASTM D5185m501								
Odorscalar*VisualNORML <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>								
Emulsified Wate       scalar       *Visual       >0.1       NEG          FLUID CONDITION       ppm       ASTM D5185m       8           Boron       ppm       ASTM D5185m       0       158           Barium       ppm       ASTM D5185m       12       1          Molybdenum       ppm       ASTM D5185m       12       1          Manganese       ppm       ASTM D5185m       1       1       1         Magnesium       ppm       ASTM D5185m       1       1       1         Calcium       ppm       ASTM D5185m       1       1       1         Phosphorus       ppm       ASTM D5185m       1138       1       1         Zinc       ppm       ASTM D5185m       1138       1       1								
FLUID CONDITION       Sodium       ppm       ASTM D5185m       8          Boron       ppm       ASTM D5185m       158           Barium       ppm       ASTM D5185m       2           Molybdenum       ppm       ASTM D5185m       2           Manganese       ppm       ASTM D5185m       <1           Magnesium       ppm       ASTM D5185m       <1           Calcium       ppm       ASTM D5185m       <1           Phosphorus       ppm       ASTM D5185m       <1           Zinc       ppm       ASTM D5185m       501								
Boron       ppm       ASTM D5185m       158          Barium       ppm       ASTM D5185m       2          Molybdenum       ppm       ASTM D5185m       2          Manganese       ppm       ASTM D5185m       4          Magnesium       ppm       ASTM D5185m       4          Magnesium       ppm       ASTM D5185m       5          Calcium       ppm       ASTM D5185m       5          Phosphorus       ppm       ASTM D5185m       1138          Zinc       ppm       ASTM D5185m       501			Scala	visual	>0.1	NEG		
Barium       ppm       ASTM D5185m       2          Molybdenum       ppm       ASTM D5185m        <1          Manganese       ppm       ASTM D5185m        <1          Magnesium       ppm       ASTM D5185m        <1          Calcium       ppm       ASTM D5185m        <1          Phosphorus       ppm       ASTM D5185m        <1          Zairc       ppm       ASTM D5185m        <1          Magnesium       ppm       ASTM D5185m        <1          Calcium       ppm       ASTM D5185m        <1          Phosphorus       ppm       ASTM D5185m        <1          Zinc       ppm       ASTM D5185m        <1	FLUID CONDITION	Sodium	ppm	ASTM D5185m		8		
MolybdenumppmASTM D5185m<1	The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		158		
Manganese       ppm       ASTM D5185m       <1			ppm			2		
Magnesium       ppm       ASTM D5185m       5          Calcium       ppm       ASTM D5185m       1138           Phosphorus       ppm       ASTM D5185m       703           Zinc       ppm       ASTM D5185m       501		Molybdenum	ppm	ASTM D5185m		<1		
Calcium       ppm       ASTM D5185m       1138          Phosphorus       ppm       ASTM D5185m       703          Zinc       ppm       ASTM D5185m       501		-	ppm			<1		
Phosphorus         ppm         ASTM D5185m         703             Zinc         ppm         ASTM D5185m         501		-	ppm			5		
Zinc ppm ASTM D5185m 501			ppm					
		•	ppm					
Sulfur         ppm         ASTM D5185m         5440			ppm					
		Sulfur	ppm	ASTM D5185m		5440		

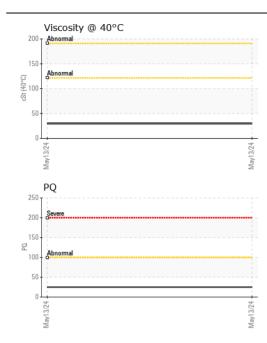
Visc @ 40°C

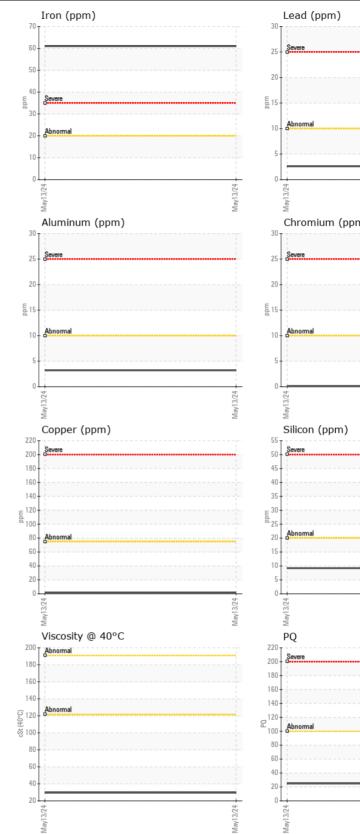
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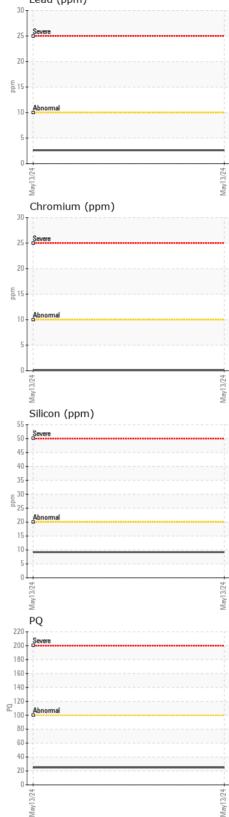
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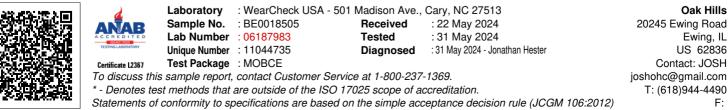
29.6

Submitted By: ?









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US 62836 Contact: JOSH T: (618)944-4490 F:

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