

**Bramco**  
**Falk Steudtner**  
**1801 Watterson Trail -**  
**Louisville, KY, 40299**

 P.O./Ref No.: **XS006B**

 Unit ID: **A40636 / C5871**

 Unit Worksite: **Lexington, KY**

 Comp. Ref NO.: **6094792**

 Component Type: **HYDRAULIC SYSTEM**

 Component: **HYDRAULIC**

 Unit Manufacturer and Model: **Komatsu PC490LC-10**

 Oil Type: **KOMATSU UNKNOWN ISO 46**

 Component Manufacturer and Model: **Komatsu PC490LC-10**

 Component Serial Number: **A40636**
**Maintenance Recommendations for Lab No. 201601250771**

 Reported On: **Jan 26 2016**

 From: **Brandeis Machinery And Supply Company, Lexington, KY**

ANALYSIS INDICATES COMPONENT &amp; LUBRICANT CONDITIONS ARE ACCEPTABLE. RESAMPLE at the next scheduled interval.

**SPECTROCHEMICAL ANALYSIS IN PARTS PER MILLION**

LAB NO.	Iron	Chromium	Nickel	Aluminum	Lead	Copper	Tin	Silver	Titanium	Silicon	Boron	Sodium	Potassium	Molybdenum	Phosphorus	Zinc	Calcium	Barium	Magnesium	Antimony	Vanadium	Sample Drawn
0771	7	<1	<1	1	2	6	<1	<0.1	<1	4	5	6	1	1	313	393	280	1	16	<1	<1	01/19/16
1123	4	<1	<1	<1	2	4	<1	<0.1	<1	3	4	11	3	<1	317	396	274	<1	16	<1	<1	09/08/15
0778	10	<1	1	3	6	10	<1	<0.1	<1	7	<1	9	1	<1	363	434	314	2	32	<1	<1	07/21/15
1494	6	<1	<1	<1	5	9	<1	<0.1	<1	8	5	<1	<10	<5	305	376	305	<10	13	<30	<1	11/12/14
1475	5	<1	<1	1	2	8	<1	<0.1	<1	8	4	3	<10	<5	307	420	329	<10	13	<30	<1	08/11/14
0065	2	<1	<1	<1	<1	8	<1	<0.1	<1	5	2	1	<10	<5	286	367	311	<10	12	<30	<1	06/03/14

**SAMPLE INFORMATION**
**PHYSICAL TEST RESULTS**

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	Water	Viscosity 100 °C	Wk-Order Number
0771	2560	2560	0	-		<0.1	7.9	
1123	2007	0	0	-		<0.1	8.1	145085
0778	1944		0	-	S	<0.1	9.4	
1494	1504		0	No	S	<0.1	9.5	
1475	1036		0	Yes	S	<0.1	10.0	
0065	572		0	-	S	<0.1	10.1	

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 P.O./Ref No.: **XS006B**

 Unit ID: **A40636 / C5871**

 Unit Worksite: **Lexington, KY**

 Comp. Ref NO.: **6094794**

 Component Type: **SWING GEAR**

 Component: **FRONT SWING GEAR**

 Unit Manufacturer and Model: **Komatsu PC490LC-10**

 Oil Type: **KOMATSU UNKNOWN SAE 30**

 Component Manufacturer and Model: **Komatsu PC490LC-10**

 Component Serial Number: **A40636**
**Maintenance Recommendations for Lab No. 201601250774**

 Reported On: **Jan 26 2016**

 From: **Brandeis Machinery And Supply Company, Lexington, KY**

ANALYSIS INDICATES COMPONENT &amp; LUBRICANT CONDITIONS ARE ACCEPTABLE. RESAMPLE at the next scheduled interval.

**SPECTROCHEMICAL ANALYSIS IN PARTS PER MILLION**

LAB NO.	Iron	Chromium	Nickel	Aluminum	Lead	Copper	Tin	Silver	Titanium	Silicon	Boron	Sodium	Potassium	Molybdenum	Phosphorus	Zinc	Calcium	Barium	Magnesium	Antimony	Vanadium	Sample Drawn
0774	34	<1	<1	<1	<1	<1	<1	<0.1	<1	13	17	<1	<1	5	913	1085	3810	<1	31	<1	<1	01/19/16
1126	14	<1	<1	<1	<1	<1	<1	<0.1	<1	12	2	8	4	1	822	1015	3717	<1	8	<1	<1	09/08/15
0779	32	<1	1	<1	1	<1	<1	<0.1	<1	17	<1	10	<1	<1	942	1153	4384	1	12	<1	<1	07/21/15
1493	22	1	<1	2	1	<1	<1	<0.1	<1	19	4	<1	<10	<5	843	1067	4051	<10	10	<30	<1	11/12/14
1478	90	2	<1	3	1	1	<1	<0.1	<1	21	2	5	<10	<5	902	1049	4542	<10	13	<30	<1	08/11/14
0066	77	<1	<1	2	1	<1	<1	<0.1	<1	15	<1	5	<10	<5	765	857	3846	<10	11	<30	<1	06/03/14

**SAMPLE INFORMATION**
**PHYSICAL TEST RESULTS**

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	Water	Viscosity 100 °C	Wk-Order Number
0774	2560	560	0	-		<0.1	11.0	
1126	2007	0	0	-		<0.1	11.0	145085
0779	1944		0	-	S	<0.1	11.2	
1493	1504		0	No	S	<0.1	11.1	
1478	1036		0	No	C	<0.1	11.4	
0066	570		0	-	S	<0.1	11.5	

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 P.O./Ref No.: **XS006B**

 Unit ID: **A40636 / C5871**

 Unit Worksite: **Lexington, KY**

 Comp. Ref NO.: **6094790**

 Component Type: **FINAL DRIVE**

 Component: **RIGHT REAR FINAL DRIVE**

 Unit Manufacturer and Model: **Komatsu PC490LC-10**

 Oil Type: **KOMATSU UNKNOWN SAE 30**

 Component Manufacturer and Model: **Komatsu PC490LC-10**

 Component Serial Number: **A40636**
**Maintenance Recommendations for Lab No. 201601250772**

 Reported On: **Jan 26 2016**

 From: **Brandeis Machinery And Supply Company, Lexington, KY**

ANALYSIS INDICATES COMPONENT &amp; LUBRICANT CONDITIONS ARE ACCEPTABLE. RESAMPLE at the next scheduled interval.

**SPECTROCHEMICAL ANALYSIS IN PARTS PER MILLION**

LAB NO.	Iron	Chromium	Nickel	Aluminum	Lead	Copper	Tin	Silver	Titanium	Silicon	Boron	Sodium	Potassium	Molybdenum	Phosphorus	Zinc	Calcium	Barium	Magnesium	Antimony	Vanadium	Sample Drawn
0772	101	2	<1	6	<1	1	<1	<0.1	<1	33	18	5	2	6	933	1117	3864	<1	34	<1	<1	01/19/16
1124	38	<1	<1	<1	<1	1	<1	<0.1	<1	12	2	4	3	2	830	1000	3632	1	11	1	<1	09/08/15
0781	280	8	2	6	<1	16	<1	<0.1	1	34	<1	15	3	1	822	998	4219	13	15	<1	<1	07/21/15
1495	203	6	<1	6	<1	11	<1	<0.1	1	29	3	<1	<10	<5	761	902	3858	12	12	<30	<1	11/12/14
1477	167	5	1	4	1	9	<1	<0.1	<1	19	4	4	<10	<5	866	1060	4405	14	13	<30	<1	08/11/14
0068	117	2	<1	3	<1	2	<1	<0.1	<1	12	<1	4	<10	<5	775	905	3936	11	12	<30	<1	06/03/14

**SAMPLE INFORMATION**
**PHYSICAL TEST RESULTS**

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	Water	Viscosity 100 °C	Wk-Order Number
0772	2560	560	0	-		<0.1	11.0	
1124	2007	0	0	-		<0.1	11.1	145085
0781	1944		0	-	S	<0.1	11.4	
1495	1504		0	No	S	<0.1	11.4	
1477	1036		0	No	S	<0.1	11.7	
0068	570		0	-	S	<0.1	11.5	

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 P.O./Ref No.: **XS006B**

 Unit ID: **A40636 / C5871**

 Unit Worksite: **Lexington, KY**

 Comp. Ref NO.: **6094791**

 Component Type: **FINAL DRIVE**

 Component: **LEFT REAR FINAL DRIVE**

 Unit Manufacturer and Model: **Komatsu PC490LC-10**

 Oil Type: **KOMATSU UNKNOWN SAE 30**

 Component Manufacturer and Model: **Komatsu PC490LC-10**

 Component Serial Number: **A40636**
**Maintenance Recommendations for Lab No. 201601250773**

 Reported On: **Jan 26 2016**

 From: **Brandeis Machinery And Supply Company, Lexington, KY**

ANALYSIS INDICATES COMPONENT &amp; LUBRICANT CONDITIONS ARE ACCEPTABLE. RESAMPLE at the next scheduled interval.

**SPECTROCHEMICAL ANALYSIS IN PARTS PER MILLION**

LAB NO.	Iron	Chromium	Nickel	Aluminum	Lead	Copper	Tin	Silver	Titanium	Silicon	Boron	Sodium	Potassium	Molybdenum	Phosphorus	Zinc	Calcium	Barium	Magnesium	Antimony	Vanadium	Sample Drawn
0773	123	2	<1	5	<1	1	<1	<0.1	<1	31	18	6	1	6	934	1105	3846	<1	33	<1	<1	01/19/16
1125	35	<1	<1	<1	<1	1	<1	<0.1	<1	12	2	8	4	1	810	1001	3616	1	10	<1	<1	09/08/15
0780	273	8	1	7	<1	20	<1	<0.1	1	39	<1	15	4	1	824	1019	4271	13	14	<1	<1	07/21/15
1496	193	6	<1	6	<1	14	<1	<0.1	1	28	3	<1	<10	<5	753	910	3797	12	12	<30	<1	11/12/14
1476	163	5	<1	4	1	12	<1	<0.1	<1	18	2	5	<10	<5	859	1062	4420	14	12	<30	<1	08/11/14
0067	118	2	<1	3	<1	3	<1	<0.1	<1	12	<1	6	<10	<5	731	895	3907	11	11	<30	<1	06/03/14

**SAMPLE INFORMATION**
**PHYSICAL TEST RESULTS**

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	Water	Viscosity 100 °C	Wk-Order Number
0773	2560	560	0	-		<0.1	10.7	
1125	2007	0	0	-		<0.1	11.5	145085
0780	1944		0	-	S	<0.1	11.4	
1496	1504		0	No	S	<0.1	11.3	
1476	1036		0	No	S	<0.1	11.5	
0067	570		0	-	S	<0.1	11.4	

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 P.O./Ref No.: **XS006B**

 Unit ID: **A40636 / C5871**

 Unit Worksite: **Lexington, KY**

 Comp. Ref NO.: **6094793**

 Component Type: **DIESEL ENGINE (TURBO CHARGED)**

 Component: **ENGINE**

 Unit Manufacturer and Model: **Komatsu PC490LC-10**

 Oil Type: **KOMATSU LOW ASH 15W40**

 Component Manufacturer and Model: **Komatsu PC490LC-10**

 Component Serial Number: **A40636**
**Maintenance Recommendations for Lab No. 201601250770**

 Reported On: **Jan 26 2016**

 From: **Brandeis Machinery And Supply Company, Lexington, KY**

ANALYSIS INDICATES ABNORMAL CONDITIONS! COPPER level is attributed to erosion/oxides. CHANGE the OIL and FILTER(s) if not already performed. RESAMPLE at the next scheduled interval.

**SPECTROCHEMICAL ANALYSIS IN PARTS PER MILLION**

LAB NO.	Iron	Chromium	Nickel	Aluminum	Lead	Copper	Tin	Silver	Titanium	Silicon	Boron	Sodium	Potassium	Molybdenum	Phosphorus	Zinc	Calcium	Barium	Magnesium	Antimony	Vanadium	Sample Drawn
0770	42	1	<1	2	6	201 *	<1	<0.1	<1	8	19	6	2	11	1003	1233	2270	<1	104	<1	<1	01/19/16
1122	15	<1	<1	<1	1	6	<1	<0.1	<1	3	51	<1	3	9	1004	1108	2147	<1	32	<1	<1	09/08/15
0777	110	1	1	1	9	13	<1	<0.1	<1	12	81	17	11	124	1072	1285	2795	<1	77	<1	<1	07/21/15
1497	31	1	<1	2	6	9	<1	<0.1	<1	12	48	2	10	110	966	1190	2465	<10	130	<30	<1	11/12/14
1474	24	1	<1	4	6	6	<1	<0.1	<1	13	46	3	<10	116	1065	1325	2764	<10	165	<30	<1	08/11/14
0064	59	<1	<1	5	6	30	<1	<0.1	<1	21 *	45	13	16	109	928	1173	2565	<10	116	<30	<1	06/03/14

**SAMPLE INFORMATION**
**PHYSICAL TEST RESULTS**

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	Viscosity 100 °C	Visc Grade	Soot	OX	NTR	GLY Test	Water	Fuel	Wk-Order Number
0770	2560	560	0	-		14.4	40	0.4	22	13	NEG	<0.1	<0.50	
1122	2007	0	0	-		13.6	40	0.1	15	8	NEG	<0.1	<0.50	145085
0777	1944		0	-	S	13.4	40	0.3	18	12	NEG	<0.1	<0.50	
1497	1504		0	Yes	C	13.1	40	0.2	17	11	NEG	<0.1	<0.50	
1474	1036		0	Yes	C	13.3	40	0.2	17	11	NEG	<0.1	<0.50	
0064	572		0	Yes	C	13.1	40	0.2	18	10	NEG	<0.1	<0.50	