

Brandeis Machinery and Supply Co
Falk Steudtner
1801 Watterson Trail -
Louisville, KY, 40299

 P.O./Ref No.: **BRANDEIS EVANSVILLE IN**

 Unit ID: **90368 / C0930**

 Unit Worksite: **Evansville, IN**

 Comp. Ref NO.: **6462302**

 Component Type: **DIESEL ENGINE**

 Component: **ENGINE**

 Unit Manufacturer and Model: **Komatsu D39PX-23**

 Oil Type: **UNKNOWN UNKNOWN 15W40**

 Component Manufacturer and Model: **Unknown/Unspecified UNKN UNKNOWN**

Component Serial Number:

Maintenance Recommendations for Lab No. 201610130526

 Reported On: **Oct 18 2016**

 From: **Brandeis Machinery And Supply Company, Evansville, IN**

ANALYSIS INDICATES COMPONENT & 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
0526	40	<1	<1	8	9	9	2	0.1	<1	16	24	14	6	11	1033	1267	2581	1	19	<1	<1	10/11/16
1215	31	2	<1	6	11	10	2	0.3	3	23	70	1	16	122	1047	1293	3003	1	25	1	<1	-

SAMPLE INFORMATION
PHYSICAL TEST RESULTS

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	D7279 Vis 100 °C	Visc Grade	E2412 SOOT	E2412 OX	E2412 NTR	E2412 GLY	Water	Fuel
0526	1426	602	0	Yes	C	14.1	40	0.1	19	10	NEG	<0.1	<0.50
1215	824		0	Yes	C	13.6	40	<0.1	19	12	NEG	<0.1	<0.50

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Unit ID: 90368 / C0930	Unit Worksite: Evansville, IN	P.O./Ref No.: BRANDEIS EVANSVILLE IN
Component Type: FINAL DRIVE		Comp. Ref NO.: 6464473
Unit Manufacturer and Model: Komatsu D39PX-23		Component: RIGHT REAR FINAL DRIVE
Component Manufacturer and Model: Unknown/Unspecified UNSPECIFIED		Oil Type: UNKNOWN UNKNOWN SAE 30
		Component Serial Number:

Maintenance Recommendations for Lab No. 201610130527

 Reported On: **Oct 18 2016**

 From: **Brandeis Machinery And Supply Company, Evansville, IN**

ANALYSIS INDICATES COMPONENT & 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
0527	117	2	<1	3	<1	22	<1	<0.1	<1	24	9	25	5	14	848	1044	3819	1	21	<1	<1	10/11/16
1012	234	7	<1	1	1	170	<1	<0.1	2	38	3	7	4	181	970	1143	4928	23	16	<1	<1	06/30/15

SAMPLE INFORMATION
PHYSICAL TEST RESULTS

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	Water	D7279 Vis 100 °C
0527	1426	602	0	No	S	<0.1	10.3
1012	824	0	0	-	C	<0.1	11.3

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Unit ID: 90368 / C0930	Unit Worksite: Evansville, IN	P.O./Ref No.: BRANDEIS EVANSVILLE IN
Component Type: FINAL DRIVE		Comp. Ref NO.: 6464472
Unit Manufacturer and Model: Komatsu D39PX-23		Component: LEFT REAR FINAL DRIVE
Component Manufacturer and Model: Unknown/Unspecified UNSPECIFIED		Oil Type: UNKNOWN UNKNOWN SAE 30
		Component Serial Number:

Maintenance Recommendations for Lab No. 201610130528

 Reported On: **Oct 18 2016**

 From: **Brandeis Machinery And Supply Company, Evansville, IN**

ANALYSIS INDICATES COMPONENT & 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
0528	126	2	<1	3	1	14	<1	<0.1	<1	22	9	22	4	13	853	1037	3802	<1	20	<1	<1	10/11/16
1011	287	8	<1	2	<1	231	<1	<0.1	2	42	4	8	4	134	994	1121	4935	27	15	<1	1	06/30/15

SAMPLE INFORMATION
PHYSICAL TEST RESULTS

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	Water	D7279 Vis 100 °C
0528	1426	602	0	No	S	<0.1	10.5
1011	824	0	0	-	C	<0.1	11.4

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 P.O./Ref No.: **BRANDEIS EVANSVILLE IN**

 Unit ID: **90368 / C0930**

 Unit Worksite: **Evansville, IN**

 Comp. Ref NO.: **6462301**

 Component Type: **HYDRAULIC SYSTEM**

 Component: **HYDRAULIC SYSTEM**

 Unit Manufacturer and Model: **Komatsu D39PX-23**

 Oil Type: **UNKNOWN UNKNOWN SAE 10**

 Component Manufacturer and Model: **Unknown/Unspecified UNKN UNKNOWN**

Component Serial Number:

Maintenance Recommendations for Lab No. 201610130552

 Reported On: **Oct 14 2016**

 From: **Brandeis Machinery And Supply Company, Evansville, IN**

ANALYSIS INDICATES COMPONENT & 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
0552	8	<1	<1	4	11	24	<1	<0.1	<1	8	62	13	5	112	1183	1388	4133	<1	4	<1	<1	10/11/16
1458	10	<1	<1	<1	9	19	<1	<0.1	<1	11	73	6	3	130	1338	1657	4755	1	13	<1	<1	06/30/15

SAMPLE INFORMATION
PHYSICAL TEST RESULTS

LAB NO.	MI/HR Unit	MI/HR Oil	Oil Add	FLTR CHG	Oil CHG	Water	D7279 Vis 100 °C
0552	1426	1426	0	No	S	<0.1	8.2
1458	824		0	-	S	<0.1	8.5