

Machine Id KOMATSU PC228 PC228-1 (S/N 1028) Component Swing Drive Fluid MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

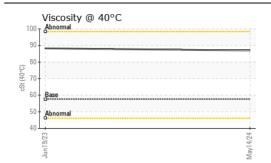
There is no indication of any contamination in the oil.

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002461	TLY0001787	
Sample Date		Client Info		14 May 2024	19 Jun 2023	
Machine Age	hrs	Client Info		6143	5605	
Oil Age	hrs	Client Info		5605	1605	
Filter Age	hrs	Client Info		5605	1605	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
Iron		ASTM D5185m	>400	46	36	
Chromium	ppm ppm	ASTM D5185m	>10	40	0	
Nickel		ASTM D5185m	>10	0	<1	
Titanium	ppm	ASTM D5185m	>10	0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	1	2	
Lead	ppm	ASTM D5185m	>20	0	0	
Copper	ppm ppm	ASTM D5185m	>200	0	<1	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m	210	0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
					HONE	
Ciliana						
Silicon	ppm	ASTM D5185m	>50	18	18	
Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>50 >20	18 0	18 2	
				-	-	
Potassium		ASTM D5185m	>20	0	2	
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2	0 NEG	2 NEG	
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.2 NONE	0 NEG NONE	2 NEG NONE	
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	0 NEG NONE NONE	2 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	0 NEG NONE NONE NONE	2 NEG NONE NONE	
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	0 NEG NONE NONE NONE NORML	2 NEG NONE NONE NONE NORML	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG	2 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 2	2 NEG NONE NONE NORML NORML NEG	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 2 0	2 NEG NONE NONE NORML NORML NEG 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 2 0 0	2 NEG NONE NONE NORML NORML NEG 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 2 0	2 NEG NONE NONE NORML NORML NEG 0 0	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 2 0 0 0 0 0	2 NEG NONE NONE NORML NORML NEG 0 0 0 2	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 2 0 0 0	2 NEG NONE NONE NORML NORML NEG 0 0 0 0 2 1 <1	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 2 0 0 0 0 0 1 19	2 NEG NONE NONE NORML NORML NEG 0 0 0 0 <1 <1 <1 19	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML 2 0 0 0 0 0 1 9 19 4170	2 NEG NONE NONE NORML NORML NEG 0 0 0 0 (1 (19 4325	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML 2 0 0 2 0 0 0 (1 19 4170 823 1005	2 NEG NONE NONE NORML NORML NEG 0 0 0 0 0 2 1 4 19 4325 811	
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	0 NEG NONE NONE NORML NORML NEG 2 0 0 0 (0 (19 4170 823	2 NEG NONE NONE NORML NORML NEG 0 0 0 (1 (1 9 4325 811 1040	

Submitted By: BRANDY BADING



Ferrous Alloys 50 45 40 3! 30 ۲<u>5</u> 15 10 0 May14/24 Non-ferrous Metals 10 lead maa 0 lav14/24 Viscosity @ 40°C 100 Ab 90 8 80 (2, 75 (40°C) 20 6! 60 B 55 50 Ab 45 Jun19/23 May14/24



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **GAINES & COMPANY** Laboratory Sample No. Received : 29 May 2024 112 WESTMINISTER RD : TLY0002461 Lab Number : 06194306 Tested : 31 May 2024 REISTERSTOWN, MD Unique Number : 11056429 Diagnosed : 31 May 2024 - Wes Davis US 21136 Test Package : CONST Contact: LANCE TANCRAITOR Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ltancraitor@gainesandco.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (410)833-9833 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Submitted By: BRANDY BADING Page 2 of 2