

PALASYN 45 Machine Id SULLIVAN PALATEK 19EE000147 Component Compressor

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

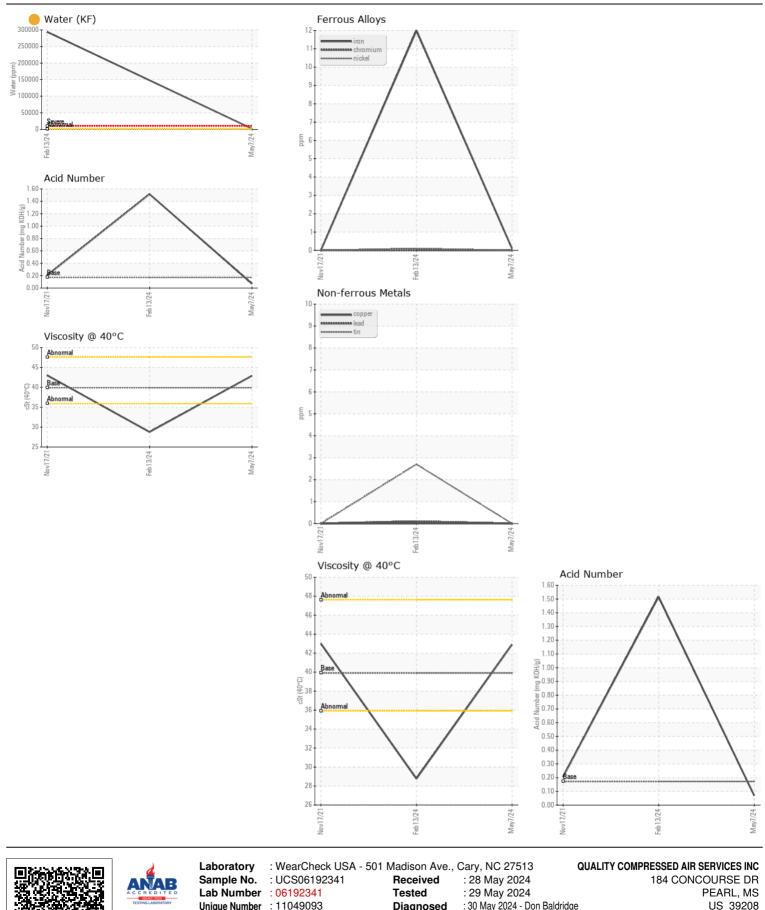
FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		UCS06192341	UCS06104428	UCS05403808
Sample Date		Client Info		07 May 2024	13 Feb 2024	17 Nov 2021
Machine Age	hrs	Client Info		27921	26714	10369
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	SEVERE	NORMAL
Iron	ppm	ASTM D5185m	>50	<1	12	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	210	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver		ASTM D5185m		۰ <1	0	0
Aluminum	ppm ppm	ASTM D5185m	>25	0	0	0
Lead		ASTM D5185m	>25	0	<1	0
Copper	ppm ppm	ASTM D5185m	>50	0	0	0
Tin	ppm	ASTM D5185m	>15	0	3	0
Vanadium		ASTM D5185m	>15	0	<1	0
White Metal	ppm scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		v13041				NONE
Silicon	ppm	ASTM D5185m	>25	2	<1	0
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>25 >20	2 0	<1 <1	0
				_		
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Potassium Water	ppm %	ASTM D5185m ASTM D6304	>20 >0.1	0	<1 ▲ 29.4	0
Potassium Water ppm Water	ppm % ppm	ASTM D5185m ASTM D6304 ASTM D6304	>20 >0.1 >1000	0 0.190 1900	<1 29.4 294000	0
Potassium Water ppm Water Silt	ppm % ppm scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual	>20 >0.1 >1000 NONE	0 0.190 1900 NONE	<1 29.4 294000 NONE	0 NONE
Potassium Water ppm Water Silt Debris	ppm % ppm scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual	>20 >0.1 >1000 NONE NONE	0 0.190 1900 NONE MODER	<1 29.4 294000 NONE NONE	0 NONE LIGHT
Potassium Water ppm Water Silt Debris Sand/Dirt	ppm % ppm scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual	>20 >0.1 >1000 NONE NONE	0 0.190 1900 NONE MODER NONE	<1 29.4 294000 NONE NONE	0 NONE LIGHT NONE
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance	ppm % ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual	>20 >0.1 >1000 NONE NONE NONE	0 0.190 1900 NONE MODER NONE NORML	<1 29.4 294000 NONE NONE NORML	0 NONE LIGHT NONE NORML
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm % ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.1 >1000 NONE NONE NORE NORML	0 0.190 1900 NONE MODER NONE NORML NORML 0.2%	<1 29.4 294000 NONE NONE NONE NORML 0.2%	0 NONE LIGHT NONE NORML NORML
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm % ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML >0.1	0 0.190 1900 NONE MODER NONE NORML 0.2%	<1 29.4 294000 NONE NONE NORML NORML 0.2%	0 NONE LIGHT NORML NORML NORML NEG 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm % ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORE NORML	0 0.190 1900 NONE MODER NORML NORML 0.2%	<1 29.4 294000 NONE NONE NORML 0.2% 0 3	0 NONE LIGHT NONE NORML NORML NEG 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML >0.1	0 0.190 1900 NONE NORE NORML 0.2% 0 0	<1 29.4 294000 NONE NONE NORML NORML 0.2% 0 3 0 	0 NONE LIGHT NONE NORML NORML NEG 0 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm % ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML >0.1	0 0.190 1900 NONE MODER NORML NORML 0.2%	<1 29.4 294000 NONE NONE NORML 0.2% 0 3 0 0 0 0 0 0 0 0	0 NONE LIGHT NONE NORML NORML NEG 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML >0.1	0 0.190 1900 NONE MODER NORE NORML 0.2% 0 0 0 0	<1 29.4 294000 NONE NONE NORML NORML 0.2% 0 3 0 	0 NONE LIGHT NORML NORML NORML NEG 0 0 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 >1000 NONE NONE NORML NORML >0.1	0 0.190 1900 NONE MODER NORE NORE 0.2% 0 0 0 0 0 0 0 0 0	<1 29.4 294000 NONE NONE NORML NORML 0.2% 0 3 0 0 <1 	0 NONE LIGHT NORML NORML NORML NEG 0 0 0 0 0 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.1 >1000 NONE NONE NORML >0.1 0.0 	0 0.190 1900 NONE NONE NORML 0.2% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 29.4 294000 NONE NORME NORML 0.2% 0.2% 0.2% 0.10% 0.11% <	0 NONE LIGHT NORML NORML NORML 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm % ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.1 >1000 NONE NONE NORML >0.1 >0.1 0.0 	0 0.190 1900 NONE NORE NORML 0.2% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 29.4 294000 NONE NONE NORML NORML 0.2% 0 3 0 0 41 0 0<th>0 NONE LIGHT NONE NORML NORML NORML 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th>	0 NONE LIGHT NONE NORML NORML NORML 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.1 >1000 NONE NONE NORML NORML >0.1 0.0 <li< th=""><th>0 0.190 1900 NONE NONE NORML 0.2% 0 0.2% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th><th><1 29.4 294000 NONE NONE NORML NORML 0.2% 0.2% 0 3 0 0 0 1 0 0 232 </th><th>0 NONE LIGHT NORML NORML NORML NORML 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th></li<>	0 0.190 1900 NONE NONE NORML 0.2% 0 0.2% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 29.4 294000 NONE NONE NORML NORML 0.2% 0.2% 0 3 0 0 0 1 0 0 232 	0 NONE LIGHT NORML NORML NORML NORML 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.1 >1000 NONE NONE NORML NORML >0.1 0.0 <li< th=""><th>0 0.190 1900 NONE NONE NORML 0.2% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th><th><1 29.4 294000 NONE NONE NORML NORML 0.2% 0 0 3 0 0 4 0 0 232 0 0 1 0 0 0 0 0 0 0</th><th>0 NONE LIGHT NORML NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</th></li<>	0 0.190 1900 NONE NONE NORML 0.2% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 29.4 294000 NONE NONE NORML NORML 0.2% 0 0 3 0 0 4 0 0 232 0 0 1 0 0 0 0 0 0 0	0 NONE LIGHT NORML NORML NORML NEG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Potassium Water ppm Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm % scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304 ASTM D6304 *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >20 >0.1 >1000 NONE NONE NORML >0.1 >0.1 0.0 	0 0.190 1900 NONE NONE NORML 0.2% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<1 29.4 294000 NONE NONE NORML NORML 0.2% 0.2% 0 3 0 3 0 41 0 232 0 564 	0 NONE LIGHT NONE NORML NORML NORML 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Report Id: UCQUAPEA [WUSCAR] 06192341 (Generated: 05/31/2024 06:56:20) Rev: 1

Contact/Location: GEORGIA HOLLEY - UCQUAPEA



Unique Number : 11049093 : 30 May 2024 - Don Baldridge Diagnosed Test Package : IND 2 (Additional Tests: KF) Contact: GEORGIA HOLLEY Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. georgia@qcas-inc.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: GEORGIA HOLLEY - UCQUAPEA

T: (225)932-0029

F: (225)932-0030