

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

## PALASYN 45 Machine Id PALATEK 1301220007 - TITAN MACHINERY MOOREHEAD Component Compressor

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		UCS06123848	UCS05809080	
	Sample Date		Client Info		27 Feb 2024	10 Mar 2023	
	Machine Age	hrs	Client Info		23986	21838	
	Oil Age	hrs	Client Info		8000	4000	
	Filter Age	hrs	Client Info		2500	4000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>50	0	0	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>25	0	0	
	Lead	ppm	ASTM D5185m	>25	0	0	
	Copper	ppm	ASTM D5185m	>50	0	0	
	Tin	ppm	ASTM D5185m	>15	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m		NONE 1	NONE 2	
				>25			
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>25 >20	1	2	
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>25 >20	1 0	2 <1	
	Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>25 >20 >0.1	1 0 NEG	2 <1 NEG	
	Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>25 >20 >0.1 NONE	1 0 NEG NONE	2 <1 NEG NONE	
	Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>25 >20 >0.1 NONE NONE	1 0 NEG NONE NONE	2 <1 NEG NONE NONE	  
	Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>25 >20 >0.1 NONE NONE NONE	1 0 NEG NONE NONE NONE	2 <1 NEG NONE NONE NONE	   
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>25 >20 >0.1 NONE NONE NONE NORML	1 0 NEG NONE NONE NONE NORML	2 <1 NEG NONE NONE NONE NORML	   
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>25 >20 >0.1 NONE NONE NORML NORML	1 0 NEG NONE NONE NONE NORML NORML	2 <1 NEG NONE NONE NONE NORML NORML	   
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 >0.1 NONE NONE NORML NORML >0.1	1 0 NEG NONE NONE NORML NORML NEG	2 <1 NEG NONE NONE NORML NORML NEG	   
There is no indication of any contamination in the oil.	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>25 >20 >0.1 NONE NONE NORML >0.1	1 0 NEG NONE NONE NORML NORML NEG	2 <1 NEG NONE NONE NORML NORML NEG 2	
There is no indication of any contamination in the oil. FLUID CONDITION The AN level is acceptable for this fluid. The condition of the oil is	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>25 >20 >0.1 NONE NONE NORML >0.1	1 0 NEG NONE NONE NORML NORML NEG <1 0	2 <1 NEG NONE NONE NORML NORML NEG 2 0	
There is no indication of any contamination in the oil. FLUID CONDITION The AN level is acceptable for this fluid. The condition of the oil is	Silicon Potassium 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 D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>25 >20 >0.1 NONE NONE NORML NORML >0.1	1 0 NEG NONE NONE NORML NORML NEG <1 0 0	2 <1 NEG NONE NONE NORML NORML NORML NEG 2 0 0	
There is no indication of any contamination in the oil. FLUID CONDITION The AN level is acceptable for this fluid. The condition of the oil is	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 NONE NONE NORM NORM >0.1	1 0 NEG NONE NONE NORML NORML NEG <1 0 0 0	2 <1 NEG NONE NONE NORML NORML NEG 2 0 0 0 0	
There is no indication of any contamination in the oil. FLUID CONDITION The AN level is acceptable for this fluid. The condition of the oil is	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 NONE NONE NORML NORML >0.1 0.0 0.0 0 0.0 0.0	1 0 NEG NONE NONE NORML NORML NEG <1 0 0 0 0	2 <1 NEG NONE NONE NORML NORML NEG 2 0 0 0 0 0 2	
There is no indication of any contamination in the oil. FLUID CONDITION The AN level is acceptable for this fluid. The condition of the oil is	Silicon Potassium 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 D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 NONE NONE NORML NORML >0.1 0.0 0.0 0 0.0 0.0 0.0 0.0	1 0 NEG NONE NONE NORML NORML NEG <1 0 0 0 0 0 0 0	2 <1 NEG NONE NONE NORML NORML NEG 2 0 0 0 0 0 0 2	
There is no indication of any contamination in the oil. FLUID CONDITION The AN level is acceptable for this fluid. The condition of the oil is	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.1 NONE NONE NORM NORM >0.1 0.0 0.0 0 0.0 0 0.0 0.0 0.0 0.0 0.0	1 0 NEG NONE NONE NORML NORML NORML 0 0 0 0 0 0 0 0 0 0 0	2 <1 NEG NONE NONE NORML NORML NEG 2 0 0 0 0 <1 2 <1	

Acid Number (AN) mg KOH/g ASTM D8045 0.172

Visc @ 40°C cSt ASTM D445 39.9

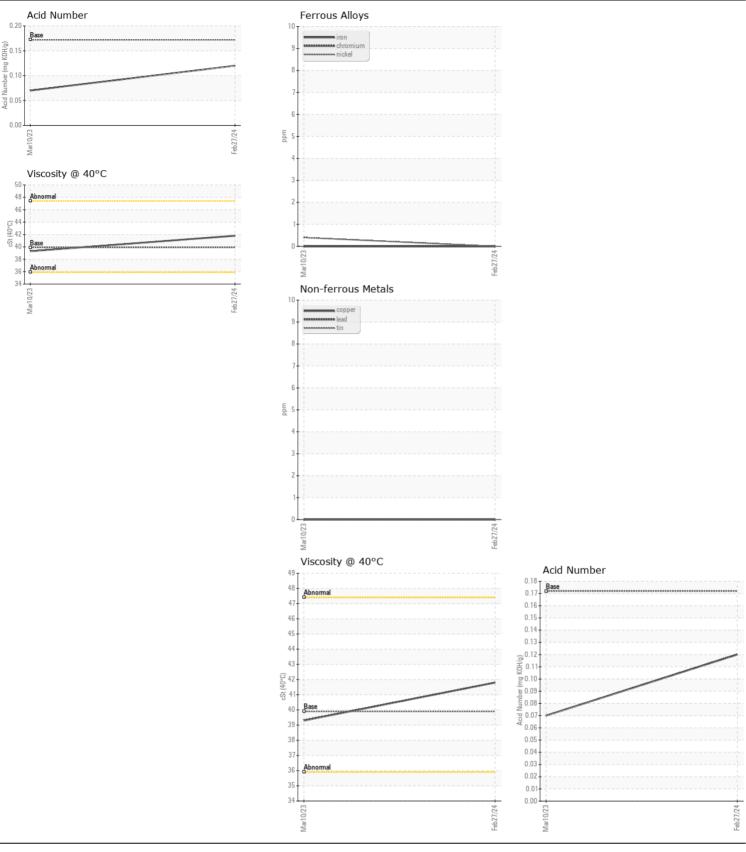
Contact/Location: DALE K - UCJEMWES

0.12

41.8

0.07

39.3



**JEMCO-MAXAIR** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : UCS06123848 Received : 20 Mar 2024 : 21 Mar 2024 Lab Number : 06123848 WEST FARGO, ND Tested : 22 Mar 2024 - Don Baldridge Unique Number : 10937999 US 58078 Diagnosed Test Package : IND 2 Contact: DALE K Certificate L2367 dalek@jemco-maxair.com To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (701)281-0362 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x: