

OIL ANALYSIS REPORT

Area **PNEUTECH D-100 [281617]** Machine to **HYDROVANE V11-001389-1107 - KBS111** Component

Component Compressor

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

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 suitable for further service.

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			Mar	2024			 		

Sample Rating Trend



NORMAL

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		UFD0000676		
Sample Date		Client Info		19 Mar 2024		
Machine Age	hrs	Client Info		103653		
Oil Age	hrs	Client Info		4487		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m		<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>25	<1		
Copper	ppm	ASTM D5185m	>50	0		
Tin	ppm	ASTM D5185m	>15	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		336		
Zinc	ppm	ASTM D5185m		0		
Sulfur	ppm	ASTM D5185m		0		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.18		



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Acid Number 0.20 Acid Number (mg K0H/g) 0.10 0.02 0.00 Mar19/24 Viscosity @ 40°C 110 100 90 cSt (40°C) 09 - 00 09 - 00 Abnormal 50 Abnormal 40. 30 Mar19/24

VISUAL		method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE			
Yellow Metal	scalar	*Visual	NONE	NONE			
Precipitate	scalar	*Visual	NONE	NONE			
Silt	scalar	*Visual	NONE	NONE			
Debris	scalar	*Visual	NONE	NONE			
Sand/Dirt	scalar	*Visual	NONE	NONE			
Appearance	scalar	*Visual	NORML	NORML			
Odor	scalar	*Visual	NORML	NORML			
Emulsified Water	scalar	*Visual	>0.1	NEG			
Free Water	scalar	*Visual		NEG			
FLUID PROPER	TIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445		99.9			
SAMPLE IMAGE	S	method	limit/base	current	history1	history2	
Color					no image	no image	
Bottom					no image	no image	
Non-ferrous Meta	ls		Mar19/24				
Viscosity @ 40°C			_	Acid Number	-		
100 0 0 0 0 0 0 0 0 0 0 0 0			(B)(10,000) (B)(10				
	1 Madiso	n Ave Carv			FLUID-AIRE DYNAMICS - (MI 14250 JUDICIAL ROA BURNSVILLE, M US 553(Contact: Service Manag		
	White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPER Visc @ 40°C SAMPLE IMAGE Color Bottom GRAPHS Ferrous Alloys Competition midel Mon-ferrous Metal Color Non-ferrous Metal Color Non-ferrous Metal Color Mon-ferrous Metal Color C	White Metal scalar Yellow Metal scalar Precipitate scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Emulsified Water scalar Free Water scalar Free Water scalar Free Water scalar Color cSt SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Ferrous Metals	White Metal scalar *Visual Precipitate scalar *Visual Silt scalar *Visual Debris scalar *Visual Sand/Dirt scalar *Visual Appearance scalar *Visual Cdor scalar *Visual Emulsified Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual Free Water scalar *Visual Color cSt ASTM D445 SAMPLE IMAGES method Color Bottom GRAPHS Ferrous Alloys Uscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C	White Metal scalar *Visual NONE Yellow Metal scalar *Visual NONE Precipitate scalar *Visual NONE Silt scalar *Visual NONE Sand/Dirt scalar *Visual NONE Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.1 Free Water scalar *Visual *0.1 Free Water scalar *0.1 Free Wat	White Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Sift scalar *Visual NONE NONE Sift scalar *Visual NONE NONE Sadd/Dirt scalar *Visual NONE NONE Sadd/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Cor cst ASTM D445 99.9 SAMPLE IMAGES method imit/base current Color color imit/base current Mon-ferrous Metals for for for for Mon-ferrous Metals	White Metal scalar *Visual NONE NONE Precipitate scalar *Visual NONE NONE Siti scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Erwisefied Water scalar *Visual NORML NORML NORML Free Water scalar *Visual NORML NORML NORM Free Water scalar *Visual NORM NeG Free Water scalar *Visual NORM Visual NORM Free Water scalar *Visual NORM NeG Free Water scalar *Visual NORM Norferrous Alloys Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C Precipitar Non-ferrous Metals Precipitar	

Contact/Location: Service Manager - UCFLUBUR Page 2 of 2