

OIL ANALYSIS REPORT

VIS DEBRIS

Machine Id **VIKING 505 PALLET MACHINE MACHINE 1**

Hydraulic System

CONOCO MEGAFLOW AW 32 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris 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.

		-	Mar2024	Mar2024		
SAMPLE INFORM		method	limit/base	current	history1	history2
			in in base			
Sample Number		Client Info		RH0001982	RH0001989	
Sample Date		Client Info		17 Mar 2024	09 Mar 2024	
Machine Age	wks	Client Info		0	1	
Oil Age	wks	Client Info		1	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				ABNORMAL	ATTENTION	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		14	13	
ron	ppm	ASTM D5185m	>20	3	<1	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>10	2	0	
_ead	ppm	ASTM D5185m	>10	2	0	
Copper	ppm	ASTM D5185m	>75	4	<1	
Гin	ppm	ASTM D5185m	>10	1	0	
/anadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	8	
Barium	ppm	ASTM D5185m	0	0	0	
Volybdenum	ppm	ASTM D5185m	0	8	7	
Manganese	ppm	ASTM D5185m		-		
Magnesium	1010			<1	0	
	maa		0	<1 23	0 16	
Calcium	mqq mqq	ASTM D5185m		23	-	
	ppm	ASTM D5185m ASTM D5185m	80	23 175	16 114	
Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	80 365	23	16	
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	80	23 175 366	16 114 307	
Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	80 365 500	23 175 366 431	16 114 307 377	
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	80 365 500 1000 limit/base	23 175 366 431 1127	16 114 307 377 1015	
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	80 365 500 1000 limit/base	23 175 366 431 1127 current	16 114 307 377 1015 history1	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	80 365 500 1000 limit/base >20	23 175 366 431 1127 current 5	16 114 307 377 1015 history1 2	 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	80 365 500 1000 limit/base >20	23 175 366 431 1127 current 5 0	16 114 307 377 1015 history1 2 2	 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	80 365 500 1000 limit/base >20 >20	23 175 366 431 1127 current 5 0 2	16 114 307 377 1015 history1 2 2 0	 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method	80 365 500 1000 limit/base >20 >20 limit/base >5000	23 175 366 431 1127 current 5 0 2 2 current	16 114 307 377 1015 history1 2 2 2 0 history1	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647	80 365 500 1000 limit/base >20 >20 limit/base >5000	23 175 366 431 1127 current 5 0 2 2 current	16 114 307 377 1015 history1 2 2 2 0 0 history1 • 5222	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647	80 365 500 1000 limit/base >20 limit/base >20 limit/base >5000 >1300	23 175 366 431 1127 current 5 0 2 2 current 	16 114 307 377 1015 history1 2 2 2 0 history1 • 5222 1176	 history2 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	80 365 500 1000 limit/base >20 limit/base >20 limit/base >5000 >1300 >160	23 175 366 431 1127 current 5 0 2 2 current 	16 114 307 377 1015 history1 2 2 2 0 history1 5222 1176 48	 history2 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	80 365 500 1000 limit/base >20 limit/base >20 limit/base >5000 >1300 >160 >40 >10	23 175 366 431 1127 current 5 0 2 2 current 	16 114 307 377 1015 history1 2 2 2 0 history1 • 5222 1176 48 9	 history2 history2 history2



OIL ANALYSIS REPORT

PQ	FLUID D
0 - Severe	Acid Numb
0-	VISUAL
Abnormal	White Meta
	Yellow Met
	Precipitate
/24	+ transformed by the second se
Mar9/24	Bilt Debris
	Sand/Dirt
Viscosity @ 40°C	Appearance
	Odor
Abnormal	Emulsified
	Free Water
Base	
Abnormal	FLUID PI
	Visc @ 40°
Mar9/24 -	+ to the second
Mar	Marl
PQ	
FQ }	Color
Severe	
	Bottom
Abnormal	Dottom
	GRAPHS
Mar9/24	Ferrous A
Ma	¹⁰
	E a
	E 5

FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.38	0.42	0.51	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
ellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	A MODER	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Ddor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	FIES	method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D445	31.0	31.3	36.4	
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color				a.	a	no image
				17200		
Bottom						no image
Jolioni						no imago
GRAPHS						
Ferrous Alloys						
iron						
••••••••••••••••••••••••••••••••••••••						
Mar9/24			Mar17/24			
			Mar			
Non-ferrous Meta	ls					
copper						
- tin						
		The subbary descendence of the	Person of Channel			
/24			/24			
Mar9/24			Mar17/24			
Viscosity @ 40°C						
, e o				Acid Number		
Abnormal			9 204	Base		
Abnormal Base			per (n	0		
Abnormal			0.0 (0) 4.0 Wind Wind Work (0) 5.0 Wind Wind Work (0) 54			
/24			0.0 dei	124+10		
Mar9/24			Mar17/24	Mar9/24		
earCheck USA - 50					BC WOOD	PRODUCT
+0001982	Recei		2 Apr 2024			AIR PARK R
6136255	Teste		Apr 2024	Doldridge	A	SHLAND, V
0955720	Diagr	iosea : 04	Apr 2024 - Dor	i Baldridge		US 2300



Lab Number : Unique Number : 10955720 4 Apr 2024 - Don Baldridge Diagn Test Package : MOB 2 (Additional Tests: PQ) Contact: C SLADE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. CSLADE@BCWOODPRODUCTS.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)

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Laboratory Sample No.

Contact/Location: C SLADE - BCWASH

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