

PRESS 6 CLUTCH

DIAGNOSTICS

Unknown Component Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS								
Sample Status		ABNORMAL	ABNORMAL					
Particles >4µm	ASTM D7647 >500	00 🔺 14718	▲ 7259					
Particles >6µm	ASTM D7647 >130	00 A 2688	1010					
Oil Cleanliness	ISO 4406 (c) >19/	17/14 🔺 21/19/14	20/17/12					

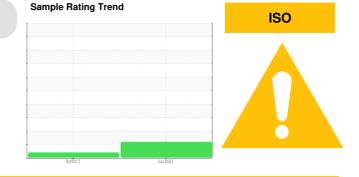
Customer Id: VENSTC Sample No.: PC0061351 Lab Number: 02566155 Test Package: IND 2



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To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com



RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description				
Change Filter			?	We recommend you service the filters on this component.				
Resample			?	We recommend an early resample to monitor this condition.				
Alert			?	Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment.				
Information Required			?	Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.				

HISTORICAL DIAGNOSIS



31 Oct 2017 Diag: Kevin Marson

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Particles >4 μ m are abnormal. The AN level is acceptable for this fluid. The condition of the sample is suitable for further service. The sample is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id **PRESS 6 CLUTCH** Component

Unknown Component Fluid AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the sample. The water content is negligible.

Fluid Condition

The AN level is acceptable for this fluid. The sample is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

	0.e2017 Jun ² 023						
SAMPLE INFOR		method	limit/base	current	history1	history2	
Sample Number		Client Info		PC0061351	PC408793		
Sample Date		Client Info		20 Jun 2023	31 Oct 2017		
Machine Age	hrs	Client Info		0	0		
Dil Age	hrs	Client Info		0	0		
Oil Changed	1110	Client Info		N/A	Filtered		
Sample Status				ABNORMAL	ABNORMAL		
WEAR METAL	S	method	limit/base	current	history1	history2	
PQ		ASTM D8184*		0	0		
Iron	ppm	ASTM D5185(m)		<1	5		
Chromium	ppm	ASTM D5185(m)		0	0		
Nickel		ASTM D5185(m)		0	0		
Titanium	ppm	ASTM D5185(m) ASTM D5185(m)		0	0		
Silver	ppm	ASTM D5185(m) ASTM D5185(m)		0	0		
Aluminum	ppm	ASTM D5185(m) ASTM D5185(m)		0 <1	0		
Lead	ppm	ASTM D5185(m) ASTM D5185(m)		<1 16	<1		
	ppm	ASTM D5185(m) ASTM D5185(m)		7	4		
Copper Tin	ppm	()		0	4		
	ppm	ASTM D5185(m)					
Antimony	ppm	ASTM D5185(m)		0	<1		
Vanadium	ppm	ASTM D5185(m)		0	0		
Beryllium	ppm	ASTM D5185(m)		0	0		
Cadmium	ppm	ASTM D5185(m)		U	0		
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	5	<1	1		
Barium	ppm	ASTM D5185(m)	5	0	1		
Volybdenum	ppm	ASTM D5185(m)	5	0	0		
Vanganese	ppm	ASTM D5185(m)		0	0		
		ASTM D5185(m)	25	<1	0		
Magnesium	ppm						
-	ppm ppm	ASTM D5185(m)	200	44	53		
Calcium		17		44 351			
Calcium Phosphorus	ppm	ASTM D5185(m)	200		53		
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	200 300	351 415 740	53 296		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	200 300 370	351 415	53 296 344		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	200 300 370	351 415 740	53 296 344 939		
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	200 300 370 2500	351 415 740 <1	53 296 344 939 <1		
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	200 300 370 2500	351 415 740 <1 current	53 296 344 939 <1 history1	 history2	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	200 300 370 2500	351 415 740 <1 current 0	53 296 344 939 <1 history1 <1	 history2	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	200 300 370 2500	351 415 740 <1 <u>current</u> 0 0	53 296 344 939 <1 history1 <1 1	 history2 	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	200 300 370 2500	351 415 740 <1 <u>current</u> 0 0 <1	53 296 344 939 <1 history1 <1 1 <1	 history2 	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304*	200 300 370 2500	351 415 740 <1 <u>current</u> 0 0 <1 0.009	53 296 344 939 <1 history1 <1 1 <1 	 history2 	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water opm Water FLUID CLEAN	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304*	200 300 370 2500 limit/base >20	351 415 740 <1 current 0 0 <1 0.009 95.5	53 296 344 939 <1 history1 <1 1 <1 	 history2 	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water opm Water FLUID CLEAN Particles >4µm	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304*	200 300 370 2500 limit/base >20 limit/base >5000	351 415 740 <1 current 0 0 0 <1 0.009 95.5 current	53 296 344 939 <1 history1 <1 1 <1 <1 history1	 history2 history2	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water opm Water FLUID CLEAN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304*	200 300 370 2500 limit/base >20 limit/base >5000	351 415 740 <1 0 0 0 1 0.009 95.5 current ▲ 14718	53 296 344 939 <1 history1 <1 1 <1 <1 <1 <1 <1 +istory1 history1 ∧ 7259	 history2 history2	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water opm Water FLUID CLEAN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304* ASTM D6304* ASTM D6304* ASTM D7647 ASTM D7647	200 300 370 2500 Iimit/base >20 Iimit/base >5000 >1300 >160	351 415 740 <1 0 0 0 <1 0.009 95.5 <u>current</u> ▲ 14718 ▲ 2688	53 296 344 939 <1 history1 <1 1 <1 <1 <1 <1 <1 <1 history1 ∧ 7259 1010	 history2 history2 history2	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water ppm Water FLUID CLEAN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5047 ASTM D7647 ASTM D7647 ASTM D7647	200 300 370 2500 Iimit/base >20 Iimit/base >5000 >1300 >160	351 415 740 <1 current 0 0 <1 0.009 95.5 current 14718 ▲ 14718 2688 129	53 296 344 939 <1 history1 <1 1 <1 1 <1 <1 history1 ∧ 7259 1010 29	 history2 history2 	
Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5047 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	200 300 370 2500 Iimit/base >20 Iimit/base >5000 >1300 >160 >40 >10	351 415 740 <1 0 0 0 <1 0.009 95.5 current 14718 ▲ 2688 129 41	53 296 344 939 <1	 history2 history2 	
Calcium Phosphorus Zinc Sulfur Lithium CONTAMINAN Silicon Sodium Potassium Water ppm Water FLUID CLEAN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm vTS	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D6304° ASTM D6304° ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	200 300 370 2500 Iimit/base >20 Iimit/base >5000 >1300 >160 >40 >10	351 415 740 <1 0 0 0 <1 0.009 95.5 current ▲ 14718 ▲ 2688 129 41 5	53 296 344 939 <1 1 1 1 1 1 1 1 1 1 1 1 1 1010 29 6 0	 history2 history2 	

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1.20 Severe 0.96 , 0.72 Mater [>] ²0.48 0.24 Abnom 0.00 0ct31/

OIL ANALYSIS REPORT

16k -	Particle Trend	FLUID DEGRA		method	limit/base	current	history1	history2
= 14k ·	4µm 6µm	Acid Number (AN)	mg KOH/g	ASTM D974*	0.57	0.57	0.36	
음 10k ·	14µm	VISUAL		method	limit/base	current	history1	history2
pred to set to the set of the set	Alexand	White Metal	scalar	Visual*	NONE	NONE	NONE	
aquin 4k.	Abnormal	Yellow Metal		Visual*	NONE	NONE	NONE	
2k ·	++++++++++++++++++++++++++++++++++++++	Precipitate	scalar	Visual*	NONE	NONE	NONE	
0k ·	2023	Silt	scalar	Visual*	NONE	VLITE	NONE	
	0ct31/17 201233	Debris	scalar	Visual*	NONE	VLITE	VLITE	
	Water	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
1.20		Appearance	scalar	Visual*	NORML	NORML	NORML	
0.96	Severe	Odor	scalar		NORML	NORML	NORML	
g0.72·		Emulsified Water	scalar	Visual*		.2%	NEG	
°0.48		Free Water		Visual*		NEG	NEG	
0.24		FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Abnormal	Visc @ 40°C	cSt	ASTM D7279(m)	46	45.9	46.9	
0.00	1/17 -	Visc @ 100°C	cSt	ASTM D7279(m)	6.7	7.3	7.0	
	0ct31/17 201233	Viscosity Index (VI)	Scale	ASTM D2270*	97	120	105	
	Viscosity @ 100°C	SAMPLE IMAG	ES	method	limit/base	current	history1	history2
cSt (100°C)	Abnormal Base	Color						no image
5. 4.	0ct31//17 +	Bottom 						no image
		Ferrous Alloys				Particle Count		
250	PQ				491,52			T ²⁶
200-	Severe	E 5-			122,88	0		-24
		a. o mickel			30,72	pevere 0 -		-22
150·	Abserved		******	********	EZ = 7,68	Abnonnal		-20 20
100	Abnormal	0ct31/1			Jun 20/23 des (per 1 m])			-18
50-		Non-ferrous Metal	5		~ SP 48			-20 100 4406: 1999 -18 1999 Cie
0.	2	_ 20 T			red 10 12			-14 III
	0ct31/17 Jun 20/23	E 10 -		NARABARAN INSTRUMENTAL AND	number 12			-12 Sol
			STREET, STREET			8		10
	Viscosity @ 100°C				23	2		
9.		0ct31/			Jun 20/23	2		
8.	Abnormal	- Viscosity @ 40°C					4μ 21μ	38μ 71μ
() 0° 7·	Base	55			(^B H01.0	Acid Number		
-25 (100°C) 9	Abnormal				23 0.0 Number (mg K0H(g)	Base		
5.		g 45 - Abnormal			늉 0.5	Abnormal		
		35						
4.	+	0ct31/17			Jun20/23 Ac	0ct31/17		Jun20/23
	0	ŏ			Ju	ŏ		лЧ
	CALLA Laboratory Sample No. Lab Number Accredited Laboratory To discuss this sample report, Test denoted (*) outside scop Validity of results and interpre	: 02566155 r : 5603201 e : IND 2 (Additional T contact Customer Servi e of accreditation, (m) m	Received Diagnose Diagnost ests: KF, ice at 1-8 ethod mo	l : 23 , ed : 27 , ician : Kev KV100, PQ, <i>00-268-213</i> <i>odified, (e) te</i>	Jun 2023 Jun 2023 /in Marson PrtCount, T. 1. ested at exter	AN Man, VI) nal lab.	2032 Firs St. C Contac allen.taylor	ndustries Inc. st Street Louth atharines, ON CA L2S 0C5 st: Allen Taylor @magna.com 905)401-9948 F: