

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id 2250446

Component Hydraulic System Fluid AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The 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

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

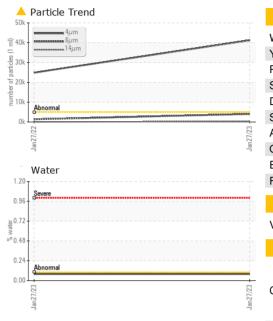
Sample Number Client Info WC0636328 WC0636285 Sample Date init Info 27 Jan 2023 27 Jan 2022 Machine Age hrs Client Info 0 0 Oil Age hrs Client Info 0 0 Oil Changed Client Info Not Changd Not Changd Sample Status Image Client Info Not Changd Not Changd WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >10 -1 -1 Nickel ppm ASTM 05185m >10 -1 0 Aluminum ppm ASTM 05185m >10 -1 0 Aduminum ppm ASTM 05185m >10 -1 0 Aduminum ppm ASTM 05185m 5 0 0 Aduminum <				Jan2022	Jan2023		
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Aluminum ppm ASTM D5185m >10 <1 0 Lead ppm ASTM D5185m >10 0 <1	Silver		ASTM D5185m		0	0	
Copper ppm ASTM D5185m >75 30 37 Tin ppm ASTM D5185m >10 <1	Aluminum	ppm	ASTM D5185m	>10	<1	0	
Copper ppm ASTM D5185m >75 30 37 Tin ppm ASTM D5185m >10 <1	Lead		ASTM D5185m	>10	0	<1	
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	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
ACIA NUMBER (AN) mg KOH/g ASTM D8045 0.57 0.34 0.28	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.34	0.28	

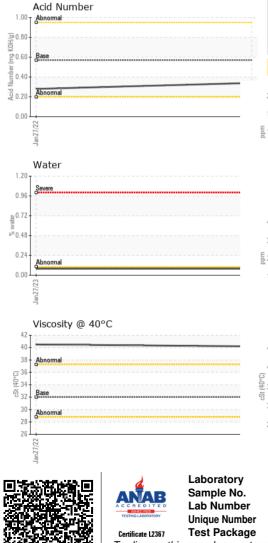
Report Id: CARHAG [WUSCAR] 05924217 (Generated: 08/15/2023 16:20:07) Rev: 1

Contact/Location: CHUCK WISHARD - CARHAG



OIL ANALYSIS REPORT





	VISUAL				ourront		
			method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	NONE	
2	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Jan27/23	Appearance	scalar	*Visual	NORML	NORML	NORML	
р Р	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPERT	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	32	40.2	40.5	
	SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Jan27/23 -	Color						no image
Jan					5		
					-		
	Bottom				1 10		no image
	GRAPHS						
	Ferrous Alloys				Particle Count		
							2
	20 iron			491,520			ľ
	15						
	15			491,520	Severe		2 -2 -2
	15			491,520 122,880 30,720	Savere		-2
	20 15 10 5			491,520 122,880 30,720 7,680	Severe Abnormal		-2 -2
	20 15 15 15 10 5 0 20 15 15 15 15 15 15 15 15 15 15			491,520 122,880 30,720 7,680	Savere		+2
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	20 15 10 5 0 10 5 10 10 5 10 10 10 10 10 10 10 10 10 10	s		491,520 122,880 30,720 7,680	Savere		+2
	Non-ferrous Metal	s		491,520- 122,880 30,720 7,680 E C C C C C C C C C C C C C C C C C C	Savere		+2 +2 +2 -1 -1 -1 -1
	Non-ferrous Metal	5		491,520 122,880 30,720 7,680	Savere		-2 -2 -2 -1 -1 -1 -1 -1
	Non-ferrous Metal	S		491,520- 122,880 30,720 7,680 E C C C C C C C C C C C C C C C C C C	Savere		-2 -2 -2 -1 -1 -1 -1 -1
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	Non-ferrous Metal	S		491,520- 122,880- 30,720 7,680 20 20 20 20 20 20 20 20 20 20 20 20 20	Savere		
	Non-ferrous Metal	s		491,520- 122,880 30,720 7,680 E C C C C C C C C C C C C C C C C C C	Severe		+2 +2 +2 +1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Viscosity @ 40°C	S		491,520- 122,880- 30,720 7,680 20 20 20 20 20 20 20 20 20 20 20 20 20	Severe Abnormal	14μ 21μ	-2 -2 -2 -1 -1 -1 -1 -1
	20 15 10 5 0 10 5 0 10 10 5 0 10 10 5 0 10 10 10 5 0 10 10 10 5 0 10 10 10 10 10 10 10 10 10	5		491,520- 122,880 30,720 7,680 C2/L2 Cer F Lac Sapar 480- 120- 120- 120- 120- 120- 120- 120- 12	Severe	14μ 21μ	+2 +2 +2 +1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Non-ferrous Metal	5		491,520- 122,880- 30,720 7,680 2012 1,920- 1	Severe Abnormal	14μ 21μ	+72 +72 +72 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1
	Non-ferrous Metal Non-ferrous Metal Viscosity @ 40°C	S		491,520- 122,880- 30,720 7,680 2012 1,920- 1	Severe Abnormal	14μ 21μ	+2 +2 +2 +1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Non-ferrous Metal	S		491,520- 122,880- 30,720 7,680 2012 1,920- 1	Abnormal	14μ 21μ	+2 +2 +2 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1
	Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal Non-ferrous Metal	S		491,520- 122,880- 30,720 7,680 2012 1,920- 1	Abnormal	14μ 21μ	+2 +2 +2 +1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Non-ferrous Metal	S		491,520- 122,880 30,720 7,680 C2/L2 Cer F Lac Sapar 480- 120- 120- 120- 120- 120- 120- 120- 12	Abnormal	14μ 21μ	+72 +72 +72 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1

* - 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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