PROBLEM SUMMARY

Sample Rating Trend

Machine Id **T-102** Component Agitator Gearbox Fluid GEAR OIL ISO 320 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST	RESULTS				
Sample Status		A	TTENTION	ATTENTION	NORMAL
Particles >4µm	ASTM D7647 >	>20000 🔺	32277	A 32707	
Oil Cleanliness	ISO 4406 (c) >	>21/19/16 🔺	22/19/15	A 22/19/13	

Customer Id: AVEMIL Sample No.: WC05905407 Lab Number: 05905407 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



16 Feb 2021 Diag: Wes Davis

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. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL ISO 320. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



30 Jan 2019 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.









Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **T-102** Component Agitator Gearbox Fluid GEAR OIL ISO 320 (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) 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 NumberClient InfoVC05905407VC0507873VC12341393Sample DateClient Info23 Jul 202316 Feb 2030 Jul 2019Machine AgemthsClient Info000Oil AgemthsClient InfoN/AN/AN/ASample StatusClient InfoN/AATTENTIONNTENTIONNORMALWEAR METALSmethodImites455ChromiumppmASTM051555>150455ChromiumppmASTM051555>100<1<11NickelppmASTM051555>100<1<10SilverppmASTM051555>1000<12CopperppmASTM051555>1000<12CopperppmASTM051555>1000<1<1AutininumppmASTM051555>10000<1AutininumppmASTM051555>10000<1AutininumppmASTM051555>100000CopperppmASTM05155550444AutininumppmASTM05155550444AutininumppmASTM05155550444AutininumppmASTM05155550444AutininumppmASTM05155550444Autininumppm	SAIVIFLE INFUNIV	ATION	method	iinii/base	current	nistory i	nistoryz
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Oil AgemthsClient Info0000Oil ChangedClient InfoN/AN/AN/AN/ASample StatusIImit/basecurrenthistory1N/RMALWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185m>10455ChromiumppmASTM D5185m>10-1<1<1NickelppmASTM D5185m>100<1<1SilverppmASTM D5185m>25000AluminumppmASTM D5185m>50212CopperppmASTM D5185m>50248TinppmASTM D5185m>50200<1AntimonyppmASTM D5185m50200<1AntimonyppmASTM D5185m502222ASTM D5185m5047434141BarlumppmASTM D5185m50474341BarlumppmASTM D5185m50444CadiumppmASTM D5185m50444CadiumppmASTM D5185m50444CadiumppmASTM D5185m50444CadiumppmASTM D5185m501444Calciumppm	Machine Age	mths	Client Info		0	0	0
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Sample StatusImage of the state	Oil Changed		Client Info		N/A	N/A	N/A
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Chromium ppm ASTM D5185m >10 <1	Iron	maa	ASTM D5185m	>150	4	5	5
Nickel ppm ASTM D5185m >10 0 <1	Chromium	mag	ASTM D5185m	>10	<1	<1	<1
Titanium ppm ASTM D5185m 0 <1	Nickel	maa	ASTM D5185m	>10	0	<1	0
Silver ppm ASTM D5185m <1	Titanium	ppm	ASTM D5185m		0	<1	<1
Aluminum ppm ASTM D5185m >25 0 0 0 Lead ppm ASTM D5185m >100 2 1 2 Copper ppm ASTM D5185m >50 2 4 8 Tin ppm ASTM D5185m >10 0 0 <1 Antimony ppm ASTM D5185m >5 0 0 0 Cadmium ppm ASTM D5185m >5 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 47 43 41 Barium ppm ASTM D5185m 15 0 0 0 Magnese ppm ASTM D5185m 15 0 0 0 2 2 2 Magnesium ppm ASTM D5185m 50 4 4 14 14 Phosphorus <th>Silver</th> <th>mag</th> <th>ASTM D5185m</th> <th></th> <th>۔ د1</th> <th><1</th> <th>0</th>	Silver	mag	ASTM D5185m		۔ د1	<1	0
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Tin ppm ASTM D5185m >10 0 0 <11	Copper	ppm	ASTM D5185m	>50	2	4	8
Antimony ppm ASTM D5185m >5 0 <1	Tin	mag	ASTM D5185m	>10	0	0	<1
Name ppm ASTM D5185m 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 50 47 43 41 Barium ppm ASTM D5185m 50 47 43 41 Barium ppm ASTM D5185m 50 47 43 41 Barium ppm ASTM D5185m 15 0 0 0 Magnesium ppm ASTM D5185m 50 4 4 4 Calcium ppm ASTM D5185m 50 14 14 14 Phosphorus ppm ASTM D5185m 100 37 29 41 Sulfur ppm ASTM D5185m 12500 8586 6868 9740 Sulfur ppm ASTM D5185m 50 8 5 10	Antimony	ppm	ASTM D5185m	>5		0	<1
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Calcium ppm ASTM D5185m 50 14 14 14 Phosphorus ppm ASTM D5185m 350 240 246 228 Zinc ppm ASTM D5185m 100 37 29 41 Sulfur ppm ASTM D5185m 12500 8586 6868 9740 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 8 5 10 Sodium ppm ASTM D5185m >20 <1 <1 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 ▲ 32277 ▲ 32707 Particles >6µm ASTM D7647 >640 192 69 Particles >6µm ASTM D7647 >640 192 0 Particles >71µm ASTM D7647 >10 1 0 <th>Magnesium</th> <th>ppm</th> <th>ASTM D5185m</th> <th>50</th> <th>4</th> <th>4</th> <th>4</th>	Magnesium	ppm	ASTM D5185m	50	4	4	4
Phosphorus ppm ASTM D5185m 350 240 246 228 Zinc ppm ASTM D5185m 100 37 29 41 Sulfur ppm ASTM D5185m 12500 8586 6868 9740 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 8 5 10 Sodium ppm ASTM D5185m >50 8 5 10 Sodium ppm ASTM D5185m >20 <1 <1 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 32277 32707 Particles >6µm ASTM D7647 >5000 4380 4631 Particles >6µm ASTM D7647 >640 192 69 Particles >1µm ASTM D7647 >10 1 0	Calcium	ppm	ASTM D5185m	50	14	14	14
Zinc ppm ASTM D5185m 100 37 29 41 Sulfur ppm ASTM D5185m 12500 8586 6868 9740 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 8 5 10 Sodium ppm ASTM D5185m >50 8 5 10 Sodium ppm ASTM D5185m >20 <1 <1 1 Potassium ppm ASTM D5185m >20 <1 <1 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 32277 32707 Particles >6µm ASTM D7647 >5000 4380 4631 Particles >1µm ASTM D7647 >640 192 69 Particles >21µm ASTM D7647 >40 2 0	Phosphorus	ppm	ASTM D5185m	350	240	246	228
Sulfur ppm ASTM D5185m 12500 8586 6868 9740 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >50 8 5 10 Sodium ppm ASTM D5185m >50 8 5 10 Sodium ppm ASTM D5185m >20 <1 <1 1 Potassium ppm ASTM D5185m >20 <1 <1 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 32277 32707 Particles >4µm ASTM D7647 >5000 4380 4631 Particles >4µm ASTM D7647 >640 192 69 Particles >21µm ASTM D7647 >40 2 0 Particles >38µm ASTM D7647 >10 1 0 </th <th>Zinc</th> <th>ppm</th> <th>ASTM D5185m</th> <th>100</th> <th>37</th> <th>29</th> <th>41</th>	Zinc	ppm	ASTM D5185m	100	37	29	41
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>508510SodiumppmASTM D5185m022PotassiumppmASTM D5185m>20<1<11FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4 μ mASTM D7647>20000 \checkmark 32277 \checkmark 32707Particles >6 μ mASTM D7647>5000 \checkmark 32277 \checkmark 32707Particles >6 μ mASTM D7647>64019269Particles >14 μ mASTM D7647>1603611Particles >21 μ mASTM D7647>1010Particles >71 μ mASTM D7647>1010Particles >71 μ mISO 4406 (c)>21/19/1622/19/15 \checkmark 22/19/13FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.850.520.4840.583	Sulfur	ppm	ASTM D5185m	12500	8586	6868	9740
Silicon ppm ASTM D5185m >50 8 5 10 Sodium ppm ASTM D5185m Image: Current of the current of th	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185m 0 2 2 Potassium ppm ASTM D5185m >20 <1 <1 1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 ▲ 32277 ▲ 32707 Particles >6µm ASTM D7647 >5000 4380 4631 Particles >14µm ASTM D7647 >640 192 69 Particles >21µm ASTM D7647 >160 36 11 Particles >38µm ASTM D7647 >40 2 0 Particles >71µm ASTM D7647 >10 1 0 Particles >71µm ASTM D7647 >10 1 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/19/15 22/19/13 FLUID DEGRADATION method Iimit/base current history1 history2	Silicon	ppm	ASTM D5185m	>50	8	5	10
Potassium ppm ASTM D5185m >20 <1	Sodium	ppm	ASTM D5185m		0	2	2
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >20000 32277 32707 Particles >6µm ASTM D7647 >5000 4380 4631 Particles >6µm ASTM D7647 >640 192 69 Particles >14µm ASTM D7647 >160 36 11 Particles >21µm ASTM D7647 >40 2 0 Particles >38µm ASTM D7647 >40 2 0 Particles >71µm ASTM D7647 >10 1 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/19/15 22/19/13 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.52 0.484 0.583	Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Particles >4µm ASTM D7647 >20000 ▲ 32277 ▲ 32707 Particles >6µm ASTM D7647 >5000 4380 4631 Particles >14µm ASTM D7647 >640 192 69 Particles >21µm ASTM D7647 >160 36 11 Particles >21µm ASTM D7647 >40 2 0 Particles >38µm ASTM D7647 >40 2 0 Particles >71µm ASTM D7647 >10 1 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/19/15 22/19/13 FLUID DEGRADATION method Imit/base current history1 history2 Acid Number (AN) mg K0Hg ASTM D8045 0.85 0.52 0.484 0.583	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >6μm ASTM D7647 >5000 4380 4631 Particles >14μm ASTM D7647 >640 192 69 Particles >21μm ASTM D7647 >160 36 11 Particles >38μm ASTM D7647 >40 2 0 Particles >38μm ASTM D7647 >10 1 0 Particles >71μm ASTM D7647 >10 1 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/19/15 22/19/13 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.52 0.484 0.583	Particles >4µm		ASTM D7647	>20000	A 32277	3 2707	
Particles >14μm ASTM D7647 >640 192 69 Particles >21μm ASTM D7647 >160 36 11 Particles >38μm ASTM D7647 >40 2 0 Particles >71μm ASTM D7647 >10 1 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/19/15 22/19/13 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D8045 0.85 0.52 0.484 0.583	Particles >6µm		ASTM D7647	>5000	4380	4631	
Particles >21μm ASTM D7647 >160 36 11 Particles >38μm ASTM D7647 >40 2 0 Particles >71μm ASTM D7647 >10 1 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/19/15 22/19/13 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.52 0.484 0.583	Particles >14µm		ASTM D7647	>640	192	69	
Particles >38μm ASTM D7647 >40 2 0 Particles >71μm ASTM D7647 >10 1 0 Oil Cleanliness ISO 4406 (c) >21/19/16 22/19/15 ≥22/19/13 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.52 0.484 0.583	Particles >21µm		ASTM D7647	>160	36	11	
Particles >71μm ASTM D7647 >10 1 0 Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 22/19/15 ▲ 22/19/13 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg K0H/g ASTM D8045 0.85 0.52 0.484 0.583	Particles >38µm		ASTM D7647	>40	2	0	
Oil Cleanliness ISO 4406 (c) >21/19/16 22/19/15 22/19/13 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.52 0.484 0.583	Particles >71µm		ASTM D7647	>10	1	0	
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.850.520.4840.583	Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 22/19/15	2 2/19/13	
Acid Number (AN) mg KOH/g ASTM D8045 0.85 0.52 0.484 0.583	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.52	0.484	0.583



OIL ANALYSIS REPORT





VISUALmeWhite Metalscalar*VisYellow Metalscalar*VisPrecipitatescalar*VisSiltscalar*VisDebrisscalar*VisSand/Dirtscalar*VisAppearancescalar*Vis	ethod limit ual NONI ual NONI ual NONI ual NONI ual NONI ual NONI	/base current E NONE E NONE E NONE E NONE E NONE E NONE	history1 NONE NONE NONE NONE NONE	history2 NONE NONE NONE NONE
White Metalscalar*VisYellow Metalscalar*VisPrecipitatescalar*VisSiltscalar*VisDebrisscalar*VisSand/Dirtscalar*VisAppearancescalar*Vis	ual NON ual NON ual NON ual NON ual NON ual NON	E NONE NONE NONE NONE NONE NONE	NONE NONE NONE NONE NONE	NONE NONE NONE NONE
Yellow Metalscalar*VisPrecipitatescalar*VisSiltscalar*VisDebrisscalar*VisSand/Dirtscalar*VisAppearancescalar*Vis	ual NON ual NON ual NON ual NON ual NON ual NOR	E NONE NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE
Precipitatescalar*VisSiltscalar*VisDebrisscalar*VisSand/Dirtscalar*VisAppearancescalar*Vis	ual NON ual NON ual NON ual NON ual NOR	E NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
Siltscalar*VisDebrisscalar*VisSand/Dirtscalar*VisAppearancescalar*Vis	ual NON ual NON ual NON ual NOR	E NONE NONE NONE	NONE NONE	NONE
Debrisscalar*VisSand/Dirtscalar*VisAppearancescalar*Vis	ual NON ual NON ual NOR	E NONE	NONE	NONE
Sand/Dirtscalar*VisAppearancescalar*Vis	ual NON	E NONE	NONE	
Appearance scalar *Vis	ual NORI		NONL	NONE
		ML NORML	NORML	NORML
Odor scalar *Vis	ual NORI	ML NORML	NORML	NORML
Emulsified Water scalar *Vis	ual >0.1	NEG	NEG	NEG
Free Water scalar *Vis	ual	NEG	NEG	NEG
FLUID PROPERTIES me	ethod limit	/base current	history1	history2
Visc @ 40°C cSt AST	M D445 320	305	298	300.6
SAMPLE IMAGES me	ethod limit	/base current	history1	history2
Color				

Bottom



Contact/Location: DONALD EYER - AVEMIL