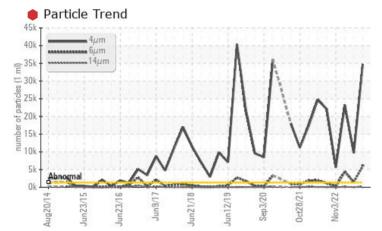


PROBLEM SUMMARY

Machine Id SM312/011 - GREEN SORTER (S/N 0238-32150-00210-04801) Component Hydraulic System Fluid

EXXON AW 68 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS Sample Status SEVERE ABNORMAL **ABNORMAL** Particles >4µm ASTM D7647 >1300 34706 A 9707 ▲ 23220 Particles >6µm ASTM D7647 >320 5994 1453 **4**391 ASTM D7647 >40 Particles >14µm 244 33 **1**26 Particles >21µm ASTM D7647 >10 **6** 53 5 **1**9 **Oil Cleanliness** ISO 4406 (c) >17/15/12 **22/20/15** A 20/18/12 A 22/19/14

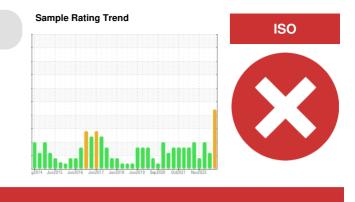
Customer Id: FLUMAR Sample No.: FC0000567 Lab Number: 05932108 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



	RECOMMENDED ACTIONS							
	Action	Status	Date	Done By	Description			
	Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
	Resample			?	Resample in 30-45 days to monitor this situation.			
	Information Required			?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.			
	Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
	Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.			
	Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS

03 May 2023 Diag: Wes Davis



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. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

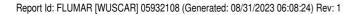
26 Jan 2023 Diag: Jonathan Hester

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

03 Nov 2022 Diag: Don Baldridge

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Machine Id SM312/011 - GREEN SORTER (S/N 0238-32150-00210-04801) Component Hydraulic System

EXXON AW 68 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

Fluid Condition

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

Sample Rating Trend

Sample Date Client Info 15 Aug 2023 03 May 2023 26 Jan 2023 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A ASIM 05185m >20 6 4 5 Chromium ppm ASIM 05185m >20 0 0 0 1 Nickel ppm ASIM 05185m >20 0 0 0 0 Sliver ppm ASIM 05185m >20 0 <1 0 0 Lead ppm ASIM 05185m >20 0 <1 0 0 0 Cadmium ppm ASIM 05185m >20 0 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 </th <th>SAMPLE INFORM</th> <th>MATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info N/A N/A N/A Sample Status a a SEVERE ABNORMAL ABNORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5185m >20 6 4 5 Chromium ppm ASTM D5185m >20 0 -1 0 Nickel ppm ASTM D5185m >20 0 -1 0 Silver ppm ASTM D5185m >20 0 -1 0 Silver ppm ASTM D5185m >20 0 -1 0 Copper ppm ASTM D5185m >20 0 -1 0 Cadmium ppm ASTM D5185m >20 0 -1 0 Admobilish -0 0 0 0 0 0 Admo	Sample Number		Client Info		FC0000567	FC0000472	FC0000272
Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status method imit/base current history1 history2 Iron ppm ASTM D5185m >20 6 4 5 Chromium ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 0 Aluminum ppm ASTM D5185m >20 0 0 0 Aluminum ppm ASTM D5185m >20 0 <1 0 Cadmium ppm ASTM D5185m 20 0 0 0	Sample Date		Client Info		15 Aug 2023	03 May 2023	26 Jan 2023
Oil Changed Client Info N/A N/A N/A N/A Sample Status method imit/base current history1 history2 Iron ppm ASTM D5165m >20 6 4 5 Chromium ppm ASTM D5165m >20 0 0 <1 Nickel ppm ASTM D5165m >20 0 0 0 Silver ppm ASTM D5165m >20 0 0 0 Lead ppm ASTM D5165m >20 0 <1 0 Copper ppm ASTM D5165m >20 0 <1 0 Cadmium ppm ASTM D5165m >20 0 <1 0 Cadmium ppm ASTM D5165m >20 0 0 0 ASTM D5165m 0 0 0 0 0 0 ASTM D5165m 0 0 0 0 0 0	Machine Age	hrs	Client Info		0	0	0
Sample Status rethod Imit/base current history1 ABNORMAL WEAR METALS reethod limit/base current history1 history2 Iron ppm ASTM D5185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 <1 0 Silver ppm ASTM D5185m >20 0 <1 0 Auminum ppm ASTM D5185m >20 <1 0 0 Auminum ppm ASTM D5185m >20 <1 0 <1 0 Lead ppm ASTM D5185m >20 <1 0 <1 0 Vanadium ppm ASTM D5185m >20 0 <1 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m <1 1 1 1 Magaaeseium ppm ASTM D5185m <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Oil Age	hrs	Client Info		0	0	0
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Nickel ppm ASTM D5185m >20 0 <1 0 Titanium ppm ASTM D5185m 0 0 0 0 Silver ppm ASTM D5185m 0 0 0 0 Auminum ppm ASTM D5185m >20 <1	Iron	ppm	ASTM D5185m	>20	6	4	5
Titanium ppm ASTM D5185m 0 0 0 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >20 <1 0 0 Lead ppm ASTM D5185m >20 0 <1 0 Copper ppm ASTM D5185m >20 0 <1 0 Vanadium ppm ASTM D5185m >20 0 <1 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 Boron ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m <1 1 1 0 Magnesium ppm ASTM D5185m 317 352 326 326 Zinc ppm ASTM D5185m 3623 4044 3675 367 32	Chromium	ppm	ASTM D5185m	>20	0	0	<1
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >20 <1	Nickel	ppm	ASTM D5185m	>20	0	<1	0
Aluminum ppm ASTM D5185m >20 <1 0 0 Lead ppm ASTM D5185m >20 0 <1	Titanium	ppm	ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >20 0 <1 0 Copper ppm ASTM D5185m >20 <1	Silver	ppm	ASTM D5185m		0	0	0
Copper ppm ASTM D5185m >20 <1 0 <1 Tin ppm ASTM D5185m >20 0 <1	Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Tin ppm ASTM D5185m >20 0 <1	Lead	ppm	ASTM D5185m	>20	0	<1	0
Vanadium ppm ASTM D5185m <1	Copper	ppm	ASTM D5185m	>20	<1	0	<1
CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m000BariumppmASTM D5185m000MolybdenumppmASTM D5185m<111ManganeseppmASTM D5185m<1<10MagnesiumppmASTM D5185m<1<10MagnesiumppmASTM D5185m747272PhosphorusppmASTM D5185m337352326ZincppmASTM D5185m362340443675CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15222SodiumppmASTM D5185m>20010FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >6µmASTM D7647>300\$34706970723220Particles >6µmASTM D7647>300\$34706970723220Particles >14µmASTM D7647>3201Particles >71µmASTM D76473200Oil CleanlinessIS0 4406 (c)>17/15/1222/20/1520/18/1222/19/14FLUID DEGRADATIONmethodlimit/basecurrenthistory1history1Oil CleanlinessIS0 4406 (c)<	Tin	ppm	ASTM D5185m	>20	0	<1	0
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Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m <1 1 1 Magnese ppm ASTM D5185m <1 1 1 Magnese ppm ASTM D5185m <1 <1 0 Magnesium ppm ASTM D5185m 4 8 4 Calcium ppm ASTM D5185m 337 352 326 Zinc ppm ASTM D5185m 3623 4044 3675 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >20 0 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 \$34706 9707 23220 Particles >6µm ASTM D7647	Cadmium	ppm	ASTM D5185m		0	0	0
Barium ppm ASTM D5185m 0 0 0 0 Molybdenum ppm ASTM D5185m <1 1 1 Manganese ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m 4 8 4 Calcium ppm ASTM D5185m 74 72 72 Phosphorus ppm ASTM D5185m 337 352 326 Zinc ppm ASTM D5185m 3623 4044 3675 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >20 0 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 \$4706 9707 23220 Particles >6µm ASTM D7647 <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1 1 1 Manganese ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m <1 <1 <1 0 Magnesium ppm ASTM D5185m 4 8 4 Calcium ppm ASTM D5185m 74 72 72 Phosphorus ppm ASTM D5185m 337 352 326 Zinc ppm ASTM D5185m 337 352 326 Zinc ppm ASTM D5185m 3623 4044 3675 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >20 0 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 34706 9707 23220 Particles >4µm ASTM D7647 >320 5994 1453 4391 Particles >4µm ASTM D7647 >320 5994 1453 4391 Particles >1µm<	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 4 8 4 Calcium ppm ASTM D5185m 74 72 72 Phosphorus ppm ASTM D5185m 337 352 326 Zinc ppm ASTM D5185m 317 352 326 Zinc ppm ASTM D5185m 4115 4444 423 Sulfur ppm ASTM D5185m 3623 4044 3675 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >20 0 1 0 PtUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >320 34706 9707 23220 Particles >6µm ASTM D7647 >320 5994 1453 4391 Particles >14µm ASTM D7647 >30 244 33 126 Particles >21µm ASTM	Molybdenum	ppm	ASTM D5185m		<1	1	1
Calcium ppm ASTM D5185m 74 72 72 Phosphorus ppm ASTM D5185m 337 352 326 Zinc ppm ASTM D5185m 337 352 326 Sulfur ppm ASTM D5185m 415 444 423 Sulfur ppm ASTM D5185m 3623 4044 3675 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >0 5 <1	Manganese	ppm	ASTM D5185m		<1	<1	0
Phosphorus ppm ASTM D5185m 337 352 326 Zinc ppm ASTM D5185m 4115 444 423 Sulfur ppm ASTM D5185m 3623 4044 3675 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >20 0 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 \$34706 9707 23220 Particles >6µm ASTM D7647 >320 \$5994 1453 4391 Particles >14µm ASTM D7647 >320 \$5994 1453 4391 Particles >21µm ASTM D7647 >32 2 1 1 Particl	Magnesium	ppm	ASTM D5185m			8	4
Zinc ppm ASTM D5185m 415 444 423 Sulfur ppm ASTM D5185m 3623 4044 3675 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >20 0 5 <1	Calcium	ppm	ASTM D5185m		74	72	72
SulfurppmASTM D5185m362340443675CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>15222SodiumppmASTM D5185m>15222PotassiumppmASTM D5185m>20010FLUID CLEANLINESSmethodlimit/basecurrenthistory1history2Particles >4µmASTM D7647>130034706970723220Particles >6µmASTM D7647>320599414534391Particles >14µmASTM D7647>4024433126Particles >21µmASTM D7647>3211Particles >71µmASTM D7647>3200Oil CleanlinessISO 4406 (c)>17/15/1222/20/1520/18/1222/19/14FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Phosphorus	ppm	ASTM D5185m		337	352	326
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >15 2 2 2 Potassium ppm ASTM D5185m 0 5 <1	Zinc	ppm	ASTM D5185m		415	444	423
Silicon ppm ASTM D5185m >15 2 2 2 Sodium ppm ASTM D5185m >15 0 5 <1	Sulfur	ppm	ASTM D5185m		3623	4044	3675
Sodium ppm ASTM D5185m 0 5 <1		\$	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 1 0 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 34706 9707 23220 Particles >6µm ASTM D7647 >320 5994 1453 4391 Particles >6µm ASTM D7647 >40 244 33 126 Particles >1µm ASTM D7647 >10 53 5 19 Particles >38µm ASTM D7647 >3 2 0 0 Particles >71µm ASTM D7647 >3 2 0 0 Oil Cleanliness ISO 4406 (c) >17/15/12 22/20/15 20/18/12 22/19/14 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>15	2		2
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 34706 9707 23220 Particles >6µm ASTM D7647 >320 5994 1453 4391 Particles >6µm ASTM D7647 >40 244 33 126 Particles >14µm ASTM D7647 >10 53 5 19 Particles >21µm ASTM D7647 >3 2 1 1 Particles >38µm ASTM D7647 >3 2 0 0 Particles >71µm ASTM D7647 >3 2 0 0 Oil Cleanliness ISO 4406 (c) >17/15/12 22/20/15 20/18/12 22/19/14 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		0	5	<1
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Particles >6μm ASTM D7647 >320 5994 ▲ 1453 ▲ 4391 Particles >14μm ASTM D7647 >40 ▲ 244 33 ▲ 126 Particles >21μm ASTM D7647 >10 ▲ 53 5 ▲ 19 Particles >38μm ASTM D7647 >3 2 1 1 Particles >71μm ASTM D7647 >3 2 0 0 Oil Cleanliness ISO 4406 (c) >17/15/12 22/20/15 ▲ 20/18/12 ▲ 22/19/14	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >40 ▲ 244 33 ▲ 126 Particles >21µm ASTM D7647 >10 ▲ 53 5 ▲ 19 Particles >38µm ASTM D7647 >3 2 1 1 Particles >71µm ASTM D7647 >3 2 0 0 Oil Cleanliness ISO 4406 (c) >17/15/12 22/20/15 ▲ 20/18/12 ▲ 22/19/14 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647		934706		
Particles >21μm ASTM D7647 >10 ▲ 53 5 ▲ 19 Particles >38μm ASTM D7647 >3 2 1 1 Particles >71μm ASTM D7647 >3 2 0 0 Oil Cleanliness ISO 4406 (c) >17/15/12 22/20/15 ▲ 20/18/12 ▲ 22/19/14 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>320	e 5994	1 453	4 391
Particles >38μm ASTM D7647 >3 2 1 1 Particles >71μm ASTM D7647 >3 2 0 0 Oil Cleanliness ISO 4406 (c) >17/15/12 22/20/15 Δ 20/18/12 Δ 22/19/14 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>40	<u> </u>		126
Particles >71μm ASTM D7647 >3 2 0 0 Oil Cleanliness ISO 4406 (c) >17/15/12 22/20/15 Δ 20/18/12 Δ 22/19/14 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>10	<u> </u>	5	<u> </u>
Oil Cleanliness ISO 4406 (c) >17/15/12 22/20/15 20/18/12 22/19/14 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>3			
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	2	0	
	Oil Cleanliness		ISO 4406 (c)	>17/15/12	e 22/20/15	🔺 20/18/12	🔺 22/19/14
Acid Number (AN) mg KOH/g ASTM D8045 0.34 0.40 0.40	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.40	0.40



Acid Number

Jun23/16

un23/1

0.70

(^B/HOX ^B/₁₀ (^B/HOX ^B/₁₀)

Acid Number ()

0.10

0.00.

74 72

70

()_68 ()_06 55 64

62

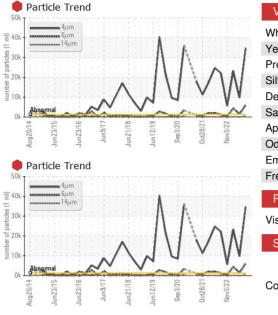
60 Abnorma

58

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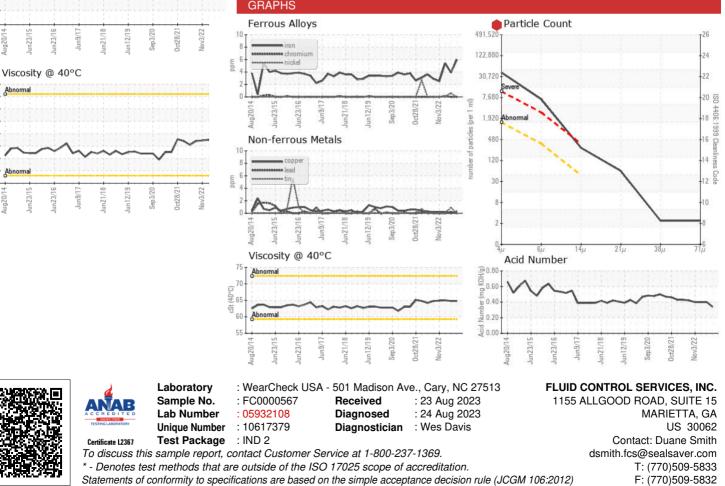
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		64.8	64.8	65.0
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						

Bottom





Contact/Location: Duane Smith - FLUMAR