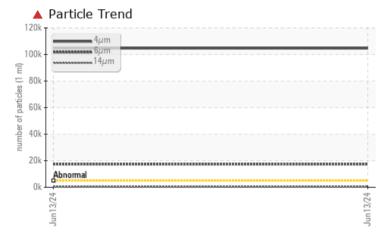


# **PROBLEM SUMMARY**

### Area **FFSoucy - 888047 PG101** Unknown Component

TOTAL MISOLA ZS 220 (--- GAL)

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

The sample submitted is 32 times dirtier than the ISO dirt count recommendation of 19/16/14.

#### PROBLEMATIC TEST RESULTS Sample Status SEVERE Particles >4µm ASTM D7647 >5000 **104607** Particles >6µm ASTM D7647 >640 **17388** ASTM D7647 >160 Particles >14µm 391 **Oil Cleanliness** ISO 4406 (c) >19/16/14 **424/21/16**

Customer Id: CHECOB Sample No.: E30002445 Lab Number: 02643491 Test Package: IND 2



To discuss the diagnosis or test data:

Aylwin Lee +1 (905)372-2251 aylwinlee@e360s.ca

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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

#### Area **FF Soucy - 888047 PG101** Component **Unknown Component** Fluid **TOTAL MISOLA ZS 220 (--- GAL)**

#### DIAGNOSIS

#### A Recommendation

The sample submitted is 32 times dirtier than the ISO dirt count recommendation of 19/16/14.

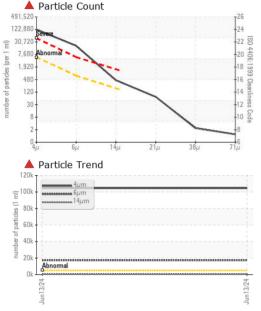
#### Contamination

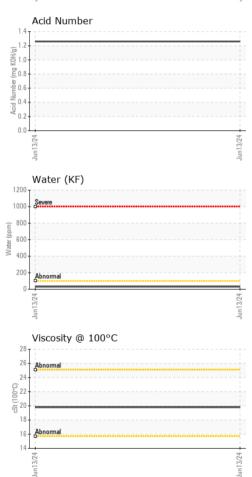
Particles >6 $\mu$ m are severely high. Particles >4 $\mu$ m are severely high. Oil Cleanliness are severely high. Particles >14 $\mu$ m are abnormally high. Particles >21 $\mu$ m are notably high.

SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Department		Client Info		Sales		
Sample From		Client Info		Tote		
Production Stage		Client Info		Initial		
Sent to WC		Client Info		06/19/2024		
Sample Number		Client Info		E30002445		
Sample Date		Client Info		13 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)		7		
Chromium	ppm	ASTM D5185(m)		0		
Nickel	ppm	ASTM D5185(m)		<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)		<1		
Lead	ppm	ASTM D5185(m)		<1		
Copper	ppm	ASTM D5185(m)		2		
Tin	ppm	ASTM D5185(m)		0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		8		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		2		
Calcium	ppm	ASTM D5185(m)		131		
Phosphorus	ppm	ASTM D5185(m)		729		
Zinc	ppm	ASTM D5185(m)		991		
Sulfur	ppm	ASTM D5185(m)		5418		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		1		
Sodium	ppm	ASTM D5185(m)		<1		
Potassium	ppm	ASTM D5185(m)	>20	0		
Water	%	ASTM D6304*		0.003		
ppm Water	ppm	ASTM D6304*		31		



# **OIL ANALYSIS REPORT**





FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>104607</b>		
Particles >6µm		ASTM D7647	>640	<b>17388</b>		
Particles >14µm		ASTM D7647	>160	<b>A</b> 391		
Particles >21µm		ASTM D7647	>40	63		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/16/14	<b>4</b> 24/21/16		
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		1.26		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE		
Yellow Metal	scalar	Visual*	NONE	NONE		
Precipitate	scalar	Visual*	NONE	NONE		
Silt	scalar	Visual*	NONE	NONE		
Debris	scalar	Visual*	NONE	NONE		
Sand/Dirt	scalar	Visual*	NONE	NONE		
Appearance	scalar	Visual*	NORML	NORML		
Odor	scalar	Visual*	NORML	NORML		
Emulsified Water	scalar	Visual*		NEG		
Free Water	scalar	Visual*		NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)		221		
Visc @ 100°C	cSt	ASTM D7279(m)		19.8		
Viscosity Index (VI)	Scale	ASTM D2270*		102		
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image



Laboratory : WearCheck Sample No. : E30002445 Laboratory : 02643491 Unique Number : 5801030 Test Package : IND 2 (Add To discuss this sample report, contact Custo

Laboratory: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9Sample No.: E30002445Received: 21 Jun 2024Lab Number: 02643491Tested: 24 Jun 2024Unique Number: 5801030Diagnosed: 25 Jun 2024 - Aylwin LeeTest Package: IND 2 (Additional Tests: KF, KV100, PrtCount, TAN Man, VI)sample report. contact Customer Service at 1-905-372-2251.

To discuss this sample report, contact Customer Service at 1-905-372-2251. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied. Environmental 360 Solutions Ltd. 640 Victoria Street Cobourg, ON CA K9A 5H5 Contact: Tatiana Sorkina tsorkina@e360s.ca T: (800)263-3939 F: (905)373-4950

Report Id: CHECOB [WCAMIS] 02643491 (Generated: 06/25/2024 08:29:18) Rev: 1

Contact/Location: Tatiana Sorkina - CHECOB