

### **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

# SQUIRE COGSWELL 048262L

Pump Fluid

#### {not provided} (15 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the component.

#### Fluid Condition

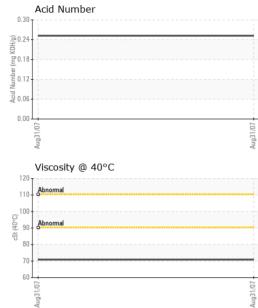
The condition of oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WCI2063121		
Sample Date		Client Info		31 Aug 2007		
Machine Age	hrs	Client Info		9868		
Oil Age	hrs	Client Info		9868		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	3		
Chromium	ppm	ASTM D5185m		0		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>7	1		
Lead	ppm	ASTM D5185m	>12	<1		
Copper	ppm	ASTM D5185m	>30	<1		
Tin	ppm	ASTM D5185m	>9	0		
Antimony	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		2		
Phosphorus	ppm	ASTM D5185m		599		
Zinc	ppm	ASTM D5185m		11		
Sulfur	ppm	ASTM D5185m		127		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	42		
Sodium	ppm	ASTM D5185m		7		
Potassium	ppm	ASTM D5185m	>20	6		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.252		



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VISUAL



					iimit/base			nistory2
		White Metal	scalar	*Visual	NONE	LIGHT		
		Yellow Metal	scalar	*Visual	NONE	NONE		
		Precipitate	scalar	*Visual	NONE	NONE		
		Silt	scalar	*Visual	NONE	NONE		
		Debris	scalar	*Visual	NONE	LIGHT		
		Sand/Dirt	scalar	*Visual	NONE	NONE		
	107	Appearance	scalar	*Visual	NORML	NORML		
	Aug31/07	Odor	scalar	*Visual	NORML	NORML		
		Emulsified Water	scalar	*Visual	NOTIVIL	NEG		
		Free Water		*Visual		NEG		
			scalar	VISUAI		NEG		
		FLUID PROPER	TIES	method	limit/base	current	history1	history2
	_	Visc @ 40°C	cSt	ASTM D445		70.87		
		SAMPLE IMAGE	S	method	limit/base	current	history1	history2
					[			
		0.1						
	Aug31/07	Color				no image	no image	no image
	Au							
		Bottom				no image	no image	no image
		Dottom				nomaye	nomaye	no image
		GRAPHS						
		Ferrous Alloys						
		10 <sub>1</sub>						
		8 - iron						
	E	6 nickel						
	Ē	<sup>a</sup> 4-						
		2-						
		Aug31/07			Aug31/0			
		Aug			Aug			
		Non-ferrous Meta	als					
		10 copper ]						
		o assessment lead						
	8							
	E.	- 4						
		2						
		0			01			
		Aug31/07			Aug31/07			
					Aı			
		Viccocity @ 4000				Acid Number		
		Viscosity @ 40°C						
		<sup>120</sup> 110 Abnormal			<sup>©</sup> <sup>0.3</sup>			
		120 110 Abnormal			(B <sup>0.3</sup> (B <sup>)</sup> H0.2 B	4		
	(40°C)	120 110 100 90 <b>Abnormal</b>			( <sup>в</sup> И-0.2 Ноу 0.2 ш 0.1	4		
		Abnormal Abnormal 90 80 80			(b) 0.3 (b) 0.2 (b) 0.1 (c) 0.1 (c) 0.1	2 -		
	(40°C)	Abnomal Abnomal 90 80 70			۵.1 میں مور ۱۸ میں 10 میں	8 - 2 - 6 -		
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	(40°C)	Abnomal Abnomal 90 80 70			۵.1 میں مور ۱۸ میں 10 میں	8 - 2 - 6 -		
	cSt (40°C)	Abnormal Abnormal Abnormal Abnormal Abnormal Company	E01 Mod		Aug31/07	Aug31/07	DDINGOO	
	(July) 389 Dratory	Abnormal Abnormal Abnormal Abnormal Comparison Comporison Comparison Comparison Comparison Comparison Co			bu 0.1 bu 100 bu	Aug31/07	PRINSCO	- PRINSBUR
Sam Sam	Cudy) 350 pratory ple No.	Abnormal Abnormal Abnormal Abnormal B0 Comparison Compori Comparison Comparison C	Received	d : 07 \$	bu ) and (0.1 bu	Aug31/07		- PRINSBUR PO BOX 26
Sam Lab	oratory ple No. Number	Abnormal Abnormal Abnormal Abnormal B0 Abnormal B0 C C C C C C C C C C C C C	Receive Diagnos	d : 07 : ed : 10 :	ury, NC 2751 Sep 2007 Sep 2007	Aug31/07		- PRINSBURG PO BOX 26 INSBURG, MI US 5628
Sam Lab I Uniqu	oratory ple No. Number ue Number	Abnormal Abnormal Abnormal Abnormal Bo Control (Control (Contro) (Control (Contro) (Cont	Received Diagnos Diagnos	d : 07 3 ed : 10 3 tician : Dou	bu ) and (0.1 bu	Aug31/07	PR	- PRINSBUR PO BOX 26
Sam Lab Uniqu ficate L2367 Test	pratory ple No. Number ue Number Package	Abnormal Abnormal Abnormal Abnormal B0 Abnormal B0 C C C C C C C C C C C C C	Received Diagnos Diagnos Tests: Bot	d : 07 \$ ed : 10 \$ tician : Dou tom )	Lovie Buy 2007 Sep 2007 Jag Bogart	Aug31/07	PR Contact: K	- PRINSBUR PO BOX 26 INSBURG, MI US 5628