

#### Machine Id 040-R0006 Component Left Final Drive Fluid SCHAEFFER SCHAEFFER 293 MOLY 75W90 (--- GAL)

## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### **WEAR**

Gear wear is indicated.

### CONTAMINATION

There is no indication of any contamination in the oil.

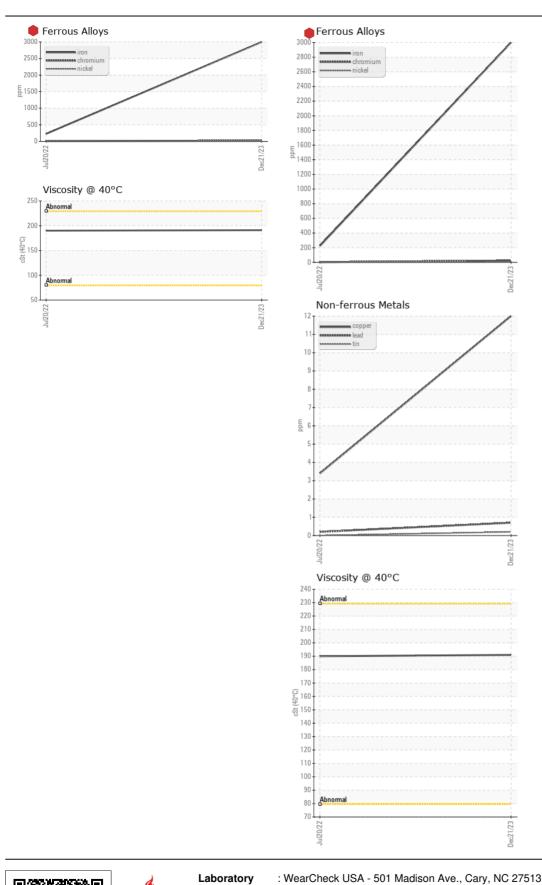
# FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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TestUOMMethodLimit/AnCurrentHistory1History2Sample NumberClient InfoVC0688435WC0698080Sample DateClient Info11 Dec 202320 Jul 2022Machine AgehrsClient Info00Filter AgehrsClient Info00Oil AgehrsClient InfoNot ChangdNot ChangdOil ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNACSample StatusSEVERENORMALNickelppmASTM D5185m>5002999225IronppmASTM D5185m>10A4NickelppmASTM D5185m>10AJitaniumppmASTM D5185m>50111AluminumppmASTM D5185m>25111AgadiumppmASTM D5185m>50123VanadiumppmASTM D5185m>50123YanadiumppmASTM D5185m>754224VanadiumppmASTM D5185m>754223YanadiumppmASTM D5185m>754224YanadiumppmASTM D5185m>75422AYanadium<	(	GAL)						
Sample DateClient Info21 De 202320 Jul 2022Machine AgehrsClient Info64592244Oil AgehrsClient Info00Filter AgehrsClient InfoNot ChangdNot ChangdOil ChangedClient InfoNot ChangdN/AFilter ChangedClient InfoNot ChangdN/AFilter ChangedClient InfoNot ChangdN/ASample StatusSEVERENORMALIronppmASTM D5185m>5002999225ChromiumppmASTM D5185m>1020NickelppmASTM D5185m>1020AluminumppmASTM D5185m>50111LeadppmASTM D5185m>50123VanadiumppmASTM D5185m>50123Yellow Metalscalar'VisualNONENONENONEYellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>75424Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>75424Yellow Metalscalar'VisualNONENONENONESi	Т	est	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         6459         2244            Oil Age         hrs         Client Info         0         0            Filter Age         hrs         Client Info         Not Changd         Not Changd            Oil Changed         Client Info         Not Changd         N/A            Filter Changed         Client Info         Not Changd         N/A            Sample Status         SEVERE         NORMAL            Iron         ppm         ASTM D5185m         >10         2         0            Nickel         ppm         ASTM D5185m         >10         2         0            Silver         ppm         ASTM D5185m         >10         2         0            Qopper         ppm         ASTM D5185m         >25         11         1            Vanadium         ppm         ASTM D5185m         >10         <1         0            Yaleb         Mothia         Scalar         'Visual         NONE         NONE         NONE            Yaleb         Mothia	S	ample Number		Client Info		WC0868435	WC0698080	
Oil Age         hrs         Client Info         0         0            Filter Age         hrs         Client Info         Not Changd         Not Changd            Oil Changed         Client Info         Not Changd         NAC Changd            Filter Changed         Client Info         Not Changd         NAC            Sample Status         SEVERE         NORMAL            Iron         ppm         ASTM D5185m         >500         2999         225            Chromium         ppm         ASTM D5185m         >10         2         0            Nickel         ppm         ASTM D5185m         >10         2         0            Aluminum         ppm         ASTM D5185m         >25         11         1            Lead         ppm         ASTM D5185m         >25         <1         <1            Vanaduium         ppm         ASTM D5185m         >10         <1         0            Yellow Metal         scalar         'Visual         NONE         NONE         NONE            Yellow Metal	S	ample Date		Client Info		21 Dec 2023	20 Jul 2022	
Filter Age Oil ChangedhrsClient Info00Siter ChangedClient InfoNot ChangdN/AFilter ChangedClient InfoNot ChangdN/ASample StatusSEVERENORMALIronppmASTM D5185m>5002999225ChromiumppmASTM D5185m>10242NickelppmASTM D5185m>100NickelppmASTM D5185m>25111SilverppmASTM D5185m>25<1<1AuminumppmASTM D5185m>50123CopperppmASTM D5185m>50123VanadiumppmASTM D5185m>50123Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>75424PotassiumppmASTM D5185m>20233SiliconppmASTM D5185m>20233SiliconppmASTM D5185m>20233SoliconppmASTM D5185m>20233SiliconppmASTM D5185m>20233SoliconppmASTM D5185m>20REGNORESoliconppm </th <th>N</th> <th>lachine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>6459</th> <th>2244</th> <th></th>	N	lachine Age	hrs	Client Info		6459	2244	
Oli ChangedClient InfoNot ChangedNot ChangedFilter ChangedClient InfoNot ChangedN/ASample StatusSEVERENORMALIronppmASTM D5185>102999225ChromiumppmASTM D5185>10242NickelppmASTM D5185>1020TitaniumppmASTM D5185>1020SilverppmASTM D5185>25111LeadppmASTM D5185>25111CopperppmASTM D5185>50123VanadiumppmASTM D5185>10<10VanadiumppmASTM D5185>10<10VanadiumppmASTM D5185>10<10VanadiumppmASTM D5185>10<10VanadiumppmASTM D5185>75424ValorppmASTM D5185>75424SiliconppmASTM D5185>75424PotassiumppmASTM D5185>75424SoliconppmASTM D5185>75424Debrisscalar*/sualNONENONENONESand/Dirt	C	Dil Age	hrs	Client Info		0	0	
Filter Changed Sample StatusClient InfoNot Changed SEVEREN/AIronppmASTM D5185m>5002999225IronppmASTM D5185m>10242NickelppmASTM D5185m>10242NickelppmASTM D5185m1020SilverppmASTM D5185m>1010AluminumppmASTM D5185m>251111LeadppmASTM D5185m>25123CopperppmASTM D5185m>50123VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>75424VanadiumppmASTM D5185m>75424Vellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20233Sulfurscalar*VisualNONENONESoliconppmASTM D5185m>20233Sulfurscalar*VisualNONENONENONESulfurscalar*VisualNONENONESoliconppmASTM D5185m>0143SodiumppmASTM D5	F	ilter Age	hrs	Client Info		0	0	
Sample StatusSEVERENORMALIronppmASTM D5185m>500• 2999225ChromiumppmASTM D5185m>10• 242NickelppmASTM D5185m>1020TitaniumppmASTM D5185m>1020SilverppmASTM D5185m>25111AluminumppmASTM D5185m>25<111LeadppmASTM D5185m>25<110CopperppmASTM D5185m>25<110VanadiumppmASTM D5185m>10<10VanadiumppmASTM D5185m>10<10Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>75424Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20233Sulfurscalar*VisualNONENONENONESodiumppmASTM D5185m>20NONENONESodiumppmASTM D5185m>20NONENONESulfurscalar*VisualNONENONENONESodiumppmASTM D5185mNORNORE<	C	il Changed		Client Info		Not Changd	Not Changd	
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Ppm         ASTM D5185m         >10         A 24         2            Nickel         ppm         ASTM D5185m         >10         2         0            Titanium         ppm         ASTM D5185m         1         0         0            Silver         ppm         ASTM D5185m         >25         11         1            Aluminum         ppm         ASTM D5185m         >25         <11         1            Lead         ppm         ASTM D5185m         >50         12         3            Copper         ppm         ASTM D5185m         >50         12         3            Vanadium         ppm         ASTM D5185m         >50         12         0            Vanadum         ppm         ASTM D5185m         >10         <1         0            Vanadum         ppm         ASTM D5185m         >20         12         3            Vanadum         ppm         ASTM D5185m         >20         23         3            Yellow Metal         scalar<*Visual         NONE         NONE         NONE	S	ample Status				SEVERE	NORMAL	
Ppm         ASTM D5185m         >10         A 24         2            Nickel         ppm         ASTM D5185m         >10         2         0            Titanium         ppm         ASTM D5185m         1         0         0            Silver         ppm         ASTM D5185m         >25         11         1            Aluminum         ppm         ASTM D5185m         >25         <11         1            Lead         ppm         ASTM D5185m         >50         12         3            Copper         ppm         ASTM D5185m         >50         12         3            Vanadium         ppm         ASTM D5185m         >50         12         0            Vanadum         ppm         ASTM D5185m         >10         <1         0            Vanadum         ppm         ASTM D5185m         >20         12         3            Vanadum         ppm         ASTM D5185m         >20         23         3            Yellow Metal         scalar<*Visual         NONE         NONE         NONE	·				. 500	<b>a</b> 2000	005	
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Titanium         ppm         ASTM D5185m         1         0            Silver         ppm         ASTM D5185m         >25         11         1            Aluminum         ppm         ASTM D5185m         >25         11         1            Lead         ppm         ASTM D5185m         >25         <1         <1            Copper         ppm         ASTM D5185m         >50         12         3            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >75         42         4            Vellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         23         3            Solit         scalar         *Visual         NONE         NON								
Silver         ppm         ASTM D5185m         0         0            Aluminum         ppm         ASTM D5185m         >25         11         1            Lead         ppm         ASTM D5185m         >25         <1         <1            Copper         ppm         ASTM D5185m         >50         12         3            Tin         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         23         3            Solit         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NORE         NORE         NORE            Appearance         scalar         *Visual         NORL <th></th> <th></th> <th></th> <th></th> <th>&gt;10</th> <th></th> <th>-</th> <th></th>					>10		-	
Aluminum         ppm         ASTM D5185m         >25         11         1            Lead         ppm         ASTM D5185m         >25         <1         <1            Copper         ppm         ASTM D5185m         >50         12         3            Tin         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >75         42         4            Yellow Metal         scalar         *Visual         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         23         3            Solit         scalar         *Visual         NONE         NONE         NONE            Debris         scalar         *Visual         NORM								
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Copper         ppm         ASTM D5185m         >50         12         3            Tin         ppm         ASTM D5185m         >10         <1         0            Vanadium         ppm         ASTM D5185m         >10         <1         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >75         42         4            Potassium         ppm         ASTM D5185m         >20         23         3            Silicon         ppm         ASTM D5185m         >20         NEG         NONE            Sufter         WC Method         >0.2         NEG         NONE            Sad/Dirt         scalar         *Visual         NONE         NORML         NORML            Appearance         scalar         *Visual         NORML         NORML         NORML            Gdor         scalar         *Visual								
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Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>75424PotassiumppmASTM D5185m>20233WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m214BoronppmASTM D5185m2144BariumppmASTM D5185m86MolybdenumppmASTM D5185m10<1MagnesiumppmASTM D5185m10<1PhosphorusppmASTM D5185m7326ZincppmASTM D5185m7326SulfurppmASTM D5185m7326					NONE			
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Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m214BoronppmASTM D5185m44234BariumppmASTM D5185m6MalganeseppmASTM D5185m192MagnesiumppmASTM D5185m110<11PhosphorusppmASTM D5185m11821469ZincppmASTM D5185m73266SulfurppmASTM D5185m2482227693	S	Silt	scalar	*Visual	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m214BoronppmASTM D5185m44234BariumppmASTM D5185m86MolybdenumppmASTM D5185m192ManganeseppmASTM D5185m10<11CalciumppmASTM D5185m1146PhosphorusppmASTM D5185m73266ZincppmASTM D5185m7327693	C	ebris	scalar	*Visual	NONE	NONE	NONE	
Odorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m214BoronppmASTM D5185m44234BariumppmASTM D5185m86MolybdenumppmASTM D5185m10ManganeseppmASTM D5185m10MagnesiumppmASTM D5185m10CalciumppmASTM D5185m1146PhosphorusppmASTM D5185m7326SulfurppmASTM D5185m2482227693	S	and/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m214BoronppmASTM D5185m44234BariumppmASTM D5185m86MolybdenumppmASTM D5185m<143ManganeseppmASTM D5185m192MagnesiumppmASTM D5185m10<1CalciumppmASTM D5185m1146PhosphorusppmASTM D5185m7326ZincppmASTM D5185m2482227693	A	ppearance	scalar	*Visual	NORML	NORML	NORML	
Sodium         ppm         ASTM D5185m         21         4            Boron         ppm         ASTM D5185m         44         234            Barium         ppm         ASTM D5185m         44         234            Barium         ppm         ASTM D5185m         8         6            Molybdenum         ppm         ASTM D5185m         13            Manganese         ppm         ASTM D5185m         19         2            Magnesium         ppm         ASTM D5185m         10         <11            Calcium         ppm         ASTM D5185m         114         6            Phosphorus         ppm         ASTM D5185m         1182         1469            Zinc         ppm         ASTM D5185m         73         26            Sulfur         ppm         ASTM D5185m         24822         27693	C	Ddor	scalar	*Visual	NORML	NORML	NORML	
Boron         ppm         ASTM D5185m         44         234            Barium         ppm         ASTM D5185m         8         6            Molybdenum         ppm         ASTM D5185m         13            Manganese         ppm         ASTM D5185m         19         2            Magnesium         ppm         ASTM D5185m         10         <11            Calcium         ppm         ASTM D5185m         114         6            Phosphorus         ppm         ASTM D5185m         1182         1469            Zinc         ppm         ASTM D5185m         73         26            Sulfur         ppm         ASTM D5185m         24822         27693	Ε	mulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Boron         ppm         ASTM D5185m         44         234            Barium         ppm         ASTM D5185m         8         6            Molybdenum         ppm         ASTM D5185m         13            Manganese         ppm         ASTM D5185m         19         2            Magnesium         ppm         ASTM D5185m         10         <11            Calcium         ppm         ASTM D5185m         114         6            Phosphorus         ppm         ASTM D5185m         1182         1469            Zinc         ppm         ASTM D5185m         73         26            Sulfur         ppm         ASTM D5185m         24822         27693	S	odium	maa	ASTM D5185m		21	4	
Barium         ppm         ASTM D5185m         8         6            Molybdenum         ppm         ASTM D5185m         <1         3         <           Manganese         ppm         ASTM D5185m         19         2            Magnesium         ppm         ASTM D5185m         10         <1         <           Calcium         ppm         ASTM D5185m         114         6            Phosphorus         ppm         ASTM D5185m         1182         1469            Zinc         ppm         ASTM D5185m         73         26            Sulfur         ppm         ASTM D5185m         24822         27693	B	loron		ASTM D5185m		44	234	
Molybdenum         ppm         ASTM D5185m         <1	В	Barium		ASTM D5185m		8	6	
Manganese         ppm         ASTM D5185m         19         2            Magnesium         ppm         ASTM D5185m         10         <1	N	lolybdenum		ASTM D5185m		<1	3	
Calcium         ppm         ASTM D5185m         114         6            Phosphorus         ppm         ASTM D5185m         1182         1469            Zinc         ppm         ASTM D5185m         73         26            Sulfur         ppm         ASTM D5185m         24822         27693		-		ASTM D5185m		19	2	
Calcium         ppm         ASTM D5185m         114         6            Phosphorus         ppm         ASTM D5185m         1182         1469            Zinc         ppm         ASTM D5185m         73         26            Sulfur         ppm         ASTM D5185m         24822         27693		U		ASTM D5185m		10	<1	
Phosphorus         ppm         ASTM D5185m         1182         1469            Zinc         ppm         ASTM D5185m         73         26            Sulfur         ppm         ASTM D5185m         24822         27693		•		ASTM D5185m			6	
Zinc         ppm         ASTM D5185m         73         26            Sulfur         ppm         ASTM D5185m         24822         27693	P	hosphorus		ASTM D5185m		1182	1469	
Sulfur         ppm         ASTM D5185m         24822         27693				ASTM D5185m		73		
	S	Sulfur	ppm	ASTM D5185m		24822	27693	

Contact/Location: DANIEL LISELLA - AECCHATN



SHIMMICK CONSTRUCTION



 Unique Number
 : 10856311
 Diagnostician
 : Jonathan Hester

 Certificate L2367
 Test Package
 : CONST

 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 d

 \* - 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)

Recieved

Diagnosed

: 30 Jan 2024

: 31 Jan 2024

: WC0868435

: 06074220

5535 TRAILHEAD DRIVE CHATTANOOGA, TN US 37415 Contact: DANIEL LISELLA daniel.lisella@shimmick.com T: 012) F:

Sample No.

Lab Number

Contact/Location: DANIEL LISELLA - AECCHATN