

# **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL

## P23 DECOILER (S/N 2892N30) Component

**Hydraulic System** FUCHS RENOLIN AW ISO 32 (--- GAL)

### Recommendation

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using IND 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid. this testkit includes AN to determine the suitability of the oil for continued use.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the component(unconfirmed).

#### Fluid Condition

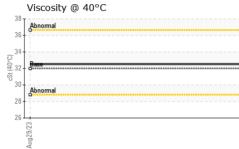
The condition of the oil is acceptable for the time in service (unconfirmed).

Machine Age         hrs         Client Info         0             Oil Qanged         Client Info         Not Changd             Sample Status         Info         Not Changd             WEAR METALS         method         Infit/base         current         history1         history2           Iron         ppm         ASTM05165(m)         >20         2             Nickel         ppm         ASTM05165(m)         >20         0             Silver         ppm         ASTM05165(m)         >20         <1             Copper         ppm         ASTM05165(m)         >20         <1             Auminum         ppm         ASTM05165(m)         >20         3             Capper         ppm         ASTM05165(m)         >20         0             Autimum         ppm         ASTM05165(m)         >20         0             Cadmium         ppm         ASTM05165(m)         >20         0					Aug2023		
Sample Date         Client Info         29 Aug 2023             Machine Age         hrs         Client Info         0             Oll Age         hrs         Client Info         0             Oll Changed         Client Info         Not Changd             Sample Status         Imit base         current         history1         Fistory2           Tron         ppm         ASTM D5185(m)         >20         0             Vickel         ppm         ASTM D5185(m)         >20         0             Vickel         ppm         ASTM D5185(m)         >20         0             Lead         ppm         ASTM D5185(m)         >20         <1             Autimium         ppm         ASTM D5185(m)         >20         3             Autimium         ppm         ASTM D5185(m)         20         0             Autimium         ppm         ASTM D5185(m)         20         0             Cadmium	SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Date         Client Info         29 Aug 2023             Machine Age         hrs         Client Info         0             Oll Age         hrs         Client Info         0             Oll Changed         Client Info         Not Changd             Sample Status         Imit base         current         history1         Fistory2           Tron         ppm         ASTM D5185(m)         >20         0             Vickel         ppm         ASTM D5185(m)         >20         0             Vickel         ppm         ASTM D5185(m)         >20         0             Lead         ppm         ASTM D5185(m)         >20         <1	Sample Number		Client Info		AW0004016		
Machine Age         hrs         Client Info         0             Oil Aga         hrs         Client Info         Not Changd             Sample Status         I         Image         errent             WEAR METALS         method         Imilibase         current         history1         history2           Vickel         ppm         ASTM05165(m)         >20         2             Nickel         ppm         ASTM05165(m)         >20         0             Silver         ppm         ASTM05165(m)         >20         <1	Sample Date		Client Info		29 Aug 2023		
Dil Age         hrs         Client Info         0             Sample Status         Client Info         Not Changd             WEAR METALS         method         Imit/base         current         history1         history2           fron         ppm         ASTM05165(m)         >20         0             Nickel         ppm         ASTM05165(m)         >20         0             Nickel         ppm         ASTM05165(m)         >20         0             Aluminum         ppm         ASTM05165(m)         >20         <1		hrs	Client Info				
Dil Changed         Client Info         Not Changd             Sample Status         nethod         limit/base         current         history1         Fistory2           WEAR METALS         method         limit/base         current         history1            Chromium         ppm         ASTM05185m         >20         0             Nickel         ppm         ASTM05185m         >20         0             Nickel         ppm         ASTM05185m         >20         1             Bilver         ppm         ASTM05185m         >20         <1	Ũ	hrs	Client Info				
Sample Status         NORMAL             WEAR METALS         method         limit/base         current         history1         history2           tron         ppm         ASTM D5185(m)         >20         2             Dhromium         ppm         ASTM D5185(m)         >20         0             Titanium         ppm         ASTM D5185(m)         >20         0             River         ppm         ASTM D5185(m)         >20         <1	•		Client Info		Not Changd		
ron         ppm         ASTM D5185(m)         >20         2             Chromium         ppm         ASTM D5185(m)         >20         0             Nickel         ppm         ASTM D5185(m)         >20         0             Silver         ppm         ASTM D5185(m)         >20         <1	Sample Status				•		
Chromium         ppm         ASTM D5185(m)         >20         0             Nickel         ppm         ASTM D5185(m)         >20         0             Silver         ppm         ASTM D5185(m)         >20         1             Aluminum         ppm         ASTM D5185(m)         >20         <1             Lead         ppm         ASTM D5185(m)         >20         3             Copper         ppm         ASTM D5185(m)         >20         3             Antimony         ppm         ASTM D5185(m)         >20         0             Antimony         ppm         ASTM D5185(m)         0              Addium         ppm         ASTM D5185(m)         0              ADDITIVES         method         Imit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0              Magnease         ppm         ASTM D5185(m)	WEAR METALS		method	limit/base	current	history1	history2
Nickel         ppm         ASTM D5185(m)         >20         0             Titanium         ppm         ASTM D5185(m)         0             Silver         ppm         ASTM D5185(m)         20         <1	Iron	ppm	ASTM D5185(m)	>20	2		
Nickel         ppm         ASTM D5185(m)         >20         0             Silver         ppm         ASTM D5185(m)         0             Aluminum         ppm         ASTM D5185(m)         >20         <1	Chromium	ppm	ASTM D5185(m)	>20	0		
Titanium         ppm         ASTM D5185(m)         0             Sliver         ppm         ASTM D5185(m)         >20         <1	Nickel		ASTM D5185(m)	>20	0		
Silver         ppm         ASTM D5165(m)         0             Aluminum         ppm         ASTM D5165(m)         >20         <1	Titanium		. 7		0		
Aluminum         ppm         ASTM D5185(m)         >20         <1             Lead         ppm         ASTM D5185(m)         >20         3             Copper         ppm         ASTM D5185(m)         >20         3             Astm MS185(m)         >20         0              Astm MS185(m)         0               Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         0              Maganesse         ppm         ASTM D5185(m)         0              Maganesse         ppm         ASTM D5185(m)         326              Calcium         ppm         ASTM D5185(m)         315 <td>Silver</td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>	Silver						
Lead         ppm         ASTM D5185(m)         >20         <1             Copper         ppm         ASTM D5185(m)         >20         0             Antimony         ppm         ASTM D5185(m)         >20         0             Antimony         ppm         ASTM D5185(m)         0             Baryllium         ppm         ASTM D5185(m)         0             ADDITIVES         method         Imit/base         current         history1         History2           Boron         ppm         ASTM D5185(m)         0             Molybdenum         ppm         ASTM D5185(m)         0             Magnesium         ppm         ASTM D5185(m)         4             Magnesium         ppm         ASTM D5185(m)         326             Visour         ppm         ASTM D5185(m)         372             Sulfur         ppm         ASTM D5185(m)         <11	Aluminum			>20	-		
Copper         ppm         ASTM D5185(m)         >20         3             Tin         ppm         ASTM D5185(m)         >20         0             Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         <1	Lead						
Tin         ppm         ASTM D5185(m)         >20         0             Antimony         ppm         ASTM D5185(m)         0              Baryllium         ppm         ASTM D5185(m)         0              Beryllium         ppm         ASTM D5185(m)         0              ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         <1							
Antimony         ppm         ASTM D5185(m)         0             Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185(m)         <1	Tin						
Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         ristory2           Boron         ppm         ASTM D5185(m)         <1				220			
Beryllium         ppm         ASTM D5188(m)         0             Cadmium         ppm         ASTM D5188(m)         0             ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5188(m)         <1	-						
CadmiumppmASTM D5188(m)0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5188(m)0MalybdenumppmASTM D5188(m)0ManganeseppmASTM D5188(m)0MagnesiumppmASTM D5188(m)0CalciumppmASTM D5188(m)51CalciumppmASTM D5188(m)326PhosphorusppmASTM D5188(m)372ZincppmASTM D5188(m)815SulfurppmASTM D5188(m)<1			( )		-		
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185(m)<1	Cadmium		( )		-		
Boron         ppm         ASTM D5185(m)         <1		le le tra		limit/base	-	historv1	historv2
Barium         ppm         ASTM D5185(m)         O             Molybdenum         ppm         ASTM D5185(m)         <1             Manganese         ppm         ASTM D5185(m)         4             Magnesium         ppm         ASTM D5185(m)         4             Calcium         ppm         ASTM D5185(m)         4             Calcium         ppm         ASTM D5185(m)         326             Calcium         ppm         ASTM D5185(m)         372             Sulfur         ppm         ASTM D5185(m)         8115             Sulfur         ppm         ASTM D5185(m)         <1             Solfum         ppm         ASTM D5185(m)         <1             Solfum         ppm         ASTM D5185(m)         <2         <1             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         Visual*		000				· · · · · ·	
Molybdenum MarganeseppmASTM D5185(m)<1MarganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)4CalciumppmASTM D5185(m)326ChosphorusppmASTM D5185(m)326ZincppmASTM D5185(m)372SulfurppmASTM D5185(m)815SulfurppmASTM D5185(m)815SulfurppmASTM D5185(m)<1			. 7				
MarganeseppmASTM D5185(m)0MagnesiumppmASTM D5185(m)4CalciumppmASTM D5185(m)326PhosphorusppmASTM D5185(m)326ZincppmASTM D5185(m)372SulfurppmASTM D5185(m)815LithiumppmASTM D5185(m)<1							
MagnesiumppmASTM D5185(m)4CalciumppmASTM D5185(m)51PhosphorusppmASTM D5185(m)326ZincppmASTM D5185(m)372SulfurppmASTM D5185(m)815LithiumppmASTM D5185(m)<1							
CalciumppmASTM D5185(m)51PhosphorusppmASTM D5185(m)326ZincppmASTM D5185(m)372SulfurppmASTM D5185(m)815LithiumppmASTM D5185(m)<1	•		× 7				
PhosphorusppmASTM D5185(m)326ZincppmASTM D5185(m)815SulfurppmASTM D5185(m)815LithiumppmASTM D5185(m)<1	•		. 7				
ZincppmASTM D5185(m)372SulfurppmASTM D5185(m)815LithiumppmASTM D5185(m)<1							
SulfurppmASTM D5185(m)815LithiumppmASTM D5185(m)<1			. 7				
LithiumppmASTM D5185(m)<1CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>15<1							
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185(m)>15<1			. 7				
SiliconppmASTM D5185(m)>15<1SodiumppmASTM D5185(m)<1	Lithium	ppm	ASTM D5185(m)		<1		
SodiumppmASTM D5185(m)<1	CONTAMINANTS	;	method	limit/base	current	history1	history2
PotassiumppmASTM D5185(m)>20<1VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NORMLNORMLAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.05NEGFree WaterscalarVisual*NEG	Silicon	ppm	ASTM D5185(m)	>15	<1		
VISUALmethodlimit/basecurrenthistory1history2White MetalscalarVisual*NONENONEYellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.05NEGFree WaterscalarVisual*NEG	Sodium	ppm	ASTM D5185(m)		<1		
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       VLITE           Sand/Dirt       scalar       Visual*       NONE       NONE           Appearance       scalar       Visual*       NORML       NORML           Odor       scalar       Visual*       NORML       NORML           Emulsified Water       scalar       Visual*       >0.05       NEG           Free Water       scalar       Visual*       NEG	Potassium	ppm	ASTM D5185(m)	>20	<1		
Yellow MetalscalarVisual*NONENONEPrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.05NEGFree WaterscalarVisual*NEG	VISUAL		method	limit/base	current	history1	history2
PrecipitatescalarVisual*NONENONESiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.05NEGFree WaterscalarVisual*NEG	White Metal	scalar	Visual*	NONE	NONE		
SiltscalarVisual*NONENONEDebrisscalarVisual*NONEVLITESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.05NEGFree WaterscalarVisual*NEG	Yellow Metal	scalar	Visual*	NONE	NONE		
Debris     scalar     Visual*     NONE     VLITE        Sand/Dirt     scalar     Visual*     NONE     NONE        Appearance     scalar     Visual*     NORML     NORML        Odor     scalar     Visual*     NORML     NORML        Emulsified Water     scalar     Visual*     >0.05     NEG        Free Water     scalar     Visual*     Neg	Precipitate	scalar	Visual*	NONE	NONE		
Sand/Dirt     scalar     Visual*     NONE     NONE        Appearance     scalar     Visual*     NORML     NORML        Odor     scalar     Visual*     NORML     NORML        Emulsified Water     scalar     Visual*     >0.05     NEG        Free Water     scalar     Visual*     Normation     NEG	Silt	scalar	Visual*	NONE	NONE		
Appearance       scalar       Visual*       NORML       NORML           Odor       scalar       Visual*       NORML       NORML           Emulsified Water       scalar       Visual*       >0.05       NEG           Free Water       scalar       Visual*       Neg	Debris	scalar	Visual*	NONE	VLITE		
Odor     scalar     Visual*     NORML     NORML        Emulsified Water     scalar     Visual*     >0.05     NEG        Free Water     scalar     Visual*     NEG	Sand/Dirt	scalar	Visual*	NONE	NONE		
Emulsified Water     scalar     Visual*     >0.05     NEG        Free Water     scalar     Visual*     NEG	Appearance	scalar	Visual*	NORML	NORML		
Emulsified Water     scalar     Visual*     >0.05     NEG        Free Water     scalar     Visual*     NEG	Odor	scalar	Visual*	NORML	NORML		
	Emulsified Water	scalar	Visual*	>0.05	NEG		
00:10) Rev: 1 Contact/Location: LYNN RASPALL - ALFVA	Free Water	scalar	Visual*				
	00:10) Rev: 1					ion: LYNN RASI	PALL - ALFVAL

Report Id: ALFVAU [WCAMIS] 02580042 (Generated: 09/01/2023 15:



# **OIL ANALYSIS REPORT**



С	F	LUID PROPER	TIES	method	limit/base	current	history1	history2
	Vis	sc @ 40°C	cSt	ASTM D7279(m)	32	32.5		
	S	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
53	Со	lor					no image	no image
Aug29/23	Во	ttom					no image	no image
		GRAPHS						
	Е <sup>10</sup> ТС	errous Alloys						
	9- 9- 8 9-	iron chromium nickel						
	7-							
	5							
	3-							
	2 - 1							
	10				9/23			
	Aug 29/23				Aug29/23			
	10 10	lon-ferrous Meta	ls					
	9- 8-	copper lead						
	7-							
	5-							
	3-							
	2							
	Aug 29/23			*****	Aug 29/23			
					Aug2			
	<sup>38</sup> T	/iscosity @ 40°C						
	36 -	Abnormal						
	35 34							
554 (4.0-c)	33 -	Base						
	31- 30-							
	29 - 2 28 -	Abnormal						
	27				3/23			
	Aug 29/23	4			Aug29/23			
CALA Laboratory Sample No. Lab Number Unique Number	: A\ : 02	2580042	75 Apple Received Diagnose Diagnost	l : 01 ed : 01	rlington, ON Sep 2023 Sep 2023 es Davis	L7L 5H9 N		<b>ERNATIONAL</b> A PARK DRIVE /AUGHAN, ON CA L4L 9C7
Laboratory Test Package To discuss this sample report, c		D 1	rice at 1-8	00-268-213				YNN RASPALL

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.

Contact/Location: LYNN RASPALL - ALFVAU

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