

LIEBHERR HS883 3069

Right Swing Drive

CHEVRON DELO GEAR ESI OIL 80W90 (--- GAL)

RECOMMENDATION	
Resample at the next service interva	al to monitor.

## **WEAR**

All component wear rates are normal.

## CONTAMINATION

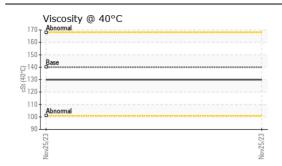
There is no indication of any contamination in the oil.

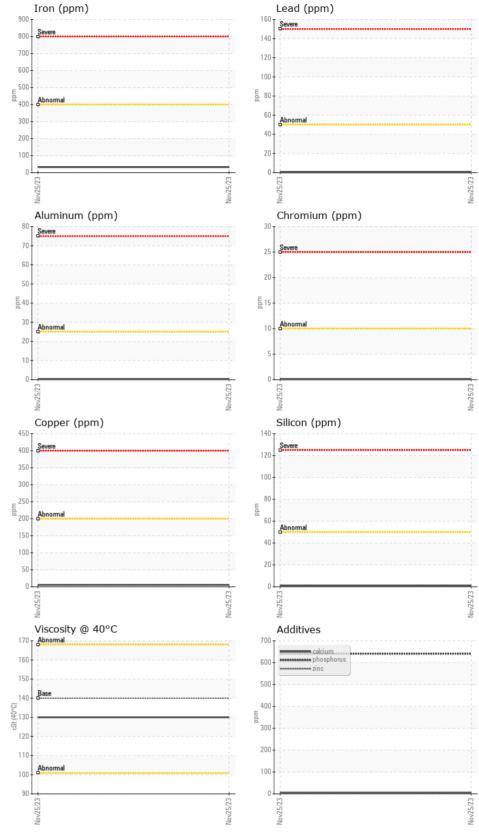
## FLUID CONDITION

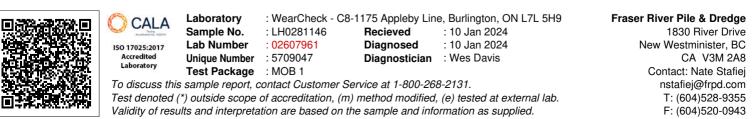
The condition of the oil is acceptable for the time in service.

Test         UOM         Method         Limit/Abn         Current         History1           Sample Number         Client Info         LH0281146	
Sample Number Client Info	History2
Sample Number Client Info LH0281146	
Sample Date         Client Info         25 Nov 2023	
Machine Age hrs Client Info 1000	
Oil Age hrs Client Info 0	
Filter Age hrs Client Info 0	
Oil Changed Client Info N/A	
Filter Changed Client Info N/A	
Sample Status NORMAL	
Iron         ppm         ASTM D5185(m)         >400         32            Observations         ASTM D5185(m)         10         1         1         1	
Chromium         ppm         ASTM D5185(m)         >10         <1	
Nickel         ppm         ASTM D5185(m)         >10         0	
Titanium ppm ASTM D5185(m) <b>0</b>	
Silver ppm ASTM D5185(m) <b>0</b>	
Aluminum         ppm         ASTM D5185(m)         >25         <1	
Lead ppm ASTM D5185(m) >50 <1	
Copper         ppm         ASTM D5185(m)         >200         6	
Tin         ppm         ASTM D5185(m)         >10         0	
Vanadium ppm ASTM D5185(m) 0	
White Metal         scalar         Visual*         NONE         NONE	
Yellow Metal scalar Visual* NONE NONE	
Silicon ppm ASTM D5185(m) >50 <1	
Potassium ppm ASTM D5185(m) >20 3	
Water WC Method >0.2 NEG	
Water WC Method >0.2 NEG	
Water         WC Method         >0.2         NEG            Silt         scalar         Visual*         NONE         NONE	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONE	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONE	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORML	  
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLINORML	  
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLINORML	  
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLINORML	  
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEG	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)<1	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)1510	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)10BariumppmASTM D5185(m)0<1	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)10BoronppmASTM D5185(m)0<1BariumppmASTM D5185(m)00MolybdenumppmASTM D5185(m)00	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)10BoronppmASTM D5185(m)0<1BariumppmASTM D5185(m)00MolybdenumppmASTM D5185(m)00ManganeseppmASTM D5185(m)0	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)50.2NEGBoronppmASTM D5185(m)1510BariumppmASTM D5185(m)0<1MolybdenumppmASTM D5185(m)00MagnesiumppmASTM D5185(m)0<NagnesiumppmASTM D5185(m)0<NagnesiumppmASTM D5185(m)0<NagnesiumppmASTM D5185(m)0<NagnesiumppmASTM D5185(m)0<NagnesiumppmASTM D5185(m)0<NagnesiumppmASTM D5185(m)0<	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMLNORMLOdorscalarVisual*NORMLNORMLEmulsified WaterscalarVisual*>0.2NEGSodiumppmASTM D5185(m)5BoronppmASTM D5185(m)1510BariumppmASTM D5185(m)0<-1MolybdenumppmASTM D5185(m)00MagnesiumppmASTM D5185(m)54	
WaterWC Method>0.2NEGSiltscalarVisual*NONENONEDebrisscalarVisual*NONENONESand/DirtscalarVisual*NONENONEAppearancescalarVisual*NORMNORMLOdorscalarVisual*NORMLNORMLDdorscalarVisual*NORMLNORMLSodiumppmASTM D5185(m)5BoronppmASTM D5185(m)0BariumppmASTM D5185(m)0MolybdenumppmASTM D5185(m)0MagnesiumppmASTM D5185(m)0<MagnesiumppmASTM D5185(m)54PhosphorusppmASTM D5185(m)5641	

Contact/Location: Nate Stafiej - FRA183NEW







Contact/Location: Nate Stafiej - FRA183NEW