

OIL ANALYSIS REPORT

Area EAR FALLS GS Machine Id FP1G1 Component

Thrust Bearing Fluid R&O OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) R&O OIL ISO 46. Please confirm. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

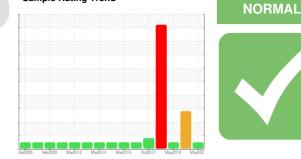
Particle Filter (Magn: 100 x)

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Sample Rating Trend

SAMPLE INFORMATIONmethodlimit/basecurrenthistory1history2Sample NumberClient Info03 May 202107 Jul 202008 May 2019Machine AgehrsClient Info000Oil AgehrsClient Info000Oil ChangedClient Info0000Oil ChangedClient InfoN/AN/AN/ASample StatusImageImageNoRMALATTENTIONCONTAMINATIONmethodImit/basecurrenthistory1history2WaterWC Method>2NEGNEGNEGVEAR METALSmethodImit/basecurrenthistory1history2IronppmASTM D5185(m)>85<1<1<1ChromiumppmASTM D5185(m)<1000NickelppmASTM D5185(m)<1000SilverppmASTM D5185(m)>40000AluminumppmASTM D5185(m)>60<1<1<1CopperppmASTM D5185(m)>722<1TinppmASTM D5185(m)>40<1<10
Sample Date Client Info 03 May 2021 07 Jul 2020 08 May 2019 Machine Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A Sample Status Method Imit/base current history1 history2 Water WC Method >2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >85 <1 <1 <1 Chromium ppm ASTM D5185(m) 0 0 0 0 Nickel ppm ASTM D5185(m) <1 0 0
Machine AgehrsClient Info000Oil AgehrsClient Info000Oil ChangedClient InfoN/AN/AN/ASample StatusImit/oaseCurrentNORMALATTENTIONCONTAMINATIONmethodlimit/oasecurrenthistory1history2WaterWC Method>2NEGNEGNEGWEAR METALSmethodlimit/oasecurrenthistory1history2IronppmASTM D5185(m)>85<1<1<1ChromiumppmASTM D5185(m)<1000NickelppmASTM D5185(m)<1000SilverppmASTM D5185(m)<1000LeadppmASTM D5185(m)>60<1<1<1CopperppmASTM D5185(m)>722<1TinppmASTM D5185(m)>40<1<10
Oil AgehrsClient Info000Oil ChangedClient InfoN/AN/AN/ASample StatusImatherNORMALATTENTIONNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>2NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185(m)>85<1<1<1ChromiumppmASTM D5185(m)<1000NickelppmASTM D5185(m)<1000SilverppmASTM D5185(m)<1000SilverppmASTM D5185(m)<1000LeadppmASTM D5185(m)>60<1<1<1CopperppmASTM D5185(m)>722<1TinppmASTM D5185(m)>40<1<10
Oil ChangedClient InfoN/AN/AN/ASample StatusClient InfoNORMALATTENTIONNORMALCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>2NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185(m)>85<1<1<1ChromiumppmASTM D5185(m)<61000NickelppmASTM D5185(m)<1000SilverppmASTM D5185(m)<1000AluminumppmASTM D5185(m)>40000LeadppmASTM D5185(m)>60<1<1<1CopperppmASTM D5185(m)>722<1TinppmASTM D5185(m)>40<1<10
Sample StatusNormationNormationNormationCONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>2NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185(m)>85<1<1<1ChromiumppmASTM D5185(m)0000NickelppmASTM D5185(m)<1000TitaniumppmASTM D5185(m)<1000SilverppmASTM D5185(m)<1000LeadppmASTM D5185(m)>60<1<1<1CopperppmASTM D5185(m)>722<1TinppmASTM D5185(m)>40<1<10
CONTAMINATIONmethodlimit/basecurrenthistory1history2WaterWC Method>2NEGNEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185(m)>85<1<1<1ChromiumppmASTM D5185(m)000NickelppmASTM D5185(m)<100TitaniumppmASTM D5185(m)<100SilverppmASTM D5185(m)<100AluminumppmASTM D5185(m)<100LeadppmASTM D5185(m)>60<1<1<1CopperppmASTM D5185(m)>722<1TinppmASTM D5185(m)>40<1<10
WaterWC Method >2NEGNEGWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5185(m)>85<1<1<1ChromiumppmASTM D5185(m)000NickelppmASTM D5185(m)<100TitaniumppmASTM D5185(m)<100SilverppmASTM D5185(m)<100AluminumppmASTM D5185(m)<100LeadppmASTM D5185(m)>60<1<1<1CopperppmASTM D5185(m)>722<1TinppmASTM D5185(m)>40<1<10
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >85 <1 <1 <1 Chromium ppm ASTM D5185(m) >85 <1 <1 <1 Chromium ppm ASTM D5185(m) 0 0 0 0 Nickel ppm ASTM D5185(m) <1 0 0 0 Titanium ppm ASTM D5185(m) <1 0 0 0 Silver ppm ASTM D5185(m) <1 0 0 0 Aluminum ppm ASTM D5185(m) >40 0 0 0 Lead ppm ASTM D5185(m) >60 <1 <1 <1 Copper ppm ASTM D5185(m) >7 2 2 <1 Tin ppm ASTM D5185(m) >40 <1 <1 0
Iron ppm ASTM D5185(m) >85 <1
Chromium ppm ASTM D5185(m) 0 0 0 Nickel ppm ASTM D5185(m) <1 0 0 Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) <1 0 0 Aluminum ppm ASTM D5185(m) <1 0 0 Lead ppm ASTM D5185(m) >60 <1 <1 <1 Copper ppm ASTM D5185(m) >7 2 2 <1 Tin ppm ASTM D5185(m) >40 <1 <1 0
Nickel ppm ASTM D5185(m) <1
Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) <1 0 0 Aluminum ppm ASTM D5185(m) >40 0 0 0 Lead ppm ASTM D5185(m) >60 <1 <1 <1 Copper ppm ASTM D5185(m) >7 2 2 <1 Tin ppm ASTM D5185(m) >40 <1 0 0
Silver ppm ASTM D5185(m) <1
Aluminum ppm ASTM D5185(m) >40 0 0 0 Lead ppm ASTM D5185(m) >60 <1 <1 <1 Copper ppm ASTM D5185(m) >7 2 2 <1 Tin ppm ASTM D5185(m) >40 <1 <1 0
Lead ppm ASTM D5185(m) >60 <1
Copper ppm ASTM D5185(m) >7 2 2 <1
Tin ppm ASTM D5185(m) >40 <1
Antimony ppm ASTM D5185(m) 0 <1
Vanadium ppm ASTM D5185(m) 0 0 0 0
Beryllium ppm ASTM D5185(m) 0 0 0
Cadmium ppm ASTM D5185(m) 0 0 0
ADDITIVES method limit/base current history1 history2
Boron ppm ASTM D5185(m) 5 <1
Barium ppm ASTM D5185(m) 5 0 0 0
Molybdenum ppm ASTM D5185(m) 5 0 0 0
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1
Manganese ppm ASTM D5185(m) 0 0 <1

Report Id: ONTKEE [WCAMIS] 02423559 (Generated: 11/27/2023 11:20:29) Rev: 1

Contact/Location: Josh Robinson - ONTKEE



52 Abnorma

14

12k 10k 10k 8k 6k 4k

2k

Mar3/05

eh77/09

Particle Trend

Feb27/09

Mar19/12

Mar19/12

Mar6/14

OIL ANALYSIS REPORT

mg KOH/g ASTM D974*

scalar Visual*

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

Visual*

0.08

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

>2

0.03

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

0.08

VLITE

▲ VLITE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

45.3

no image

0.073

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NEG

NEG

45.8

no image

NORML

FLUID DEGRADATION

Acid Number (AN)

VISUAL

White Metal

Yellow Metal

Precipitate

Silt

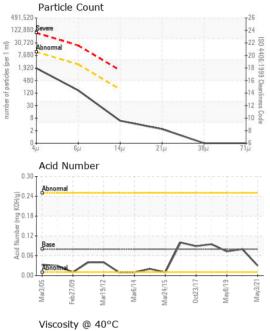
Debris

Odor

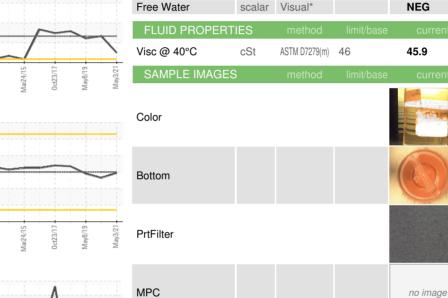
Sand/Dirt

Appearance

Emulsified Water



Mar6/14



	ISO 17025:2017 Accredited Laboratory	Laboratory Sample No. Lab Number Unique Number Test Package	: WC0560615 : <mark>02423559</mark> : 5227059	Received Diagnosed Diagnostician	e, Burlington, ON L7L 5H : 26 May 2021 : 27 May 2021 : Kevin Marson alysis, FilterPatch, PrtCou	KENORA PRODUCTION CENTRE, 200-60 FOURTEENTH ST N. KENORA, ON CA P9N 4M9
	To discuss this sample report, contact Customer Service at 1-800-268-2131.					josh.robinson@opg.com
向我與发生	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.					F:

Report Id: ONTKEE [WCAMIS] 02423559 (Generated: 11/27/2023 11:20:30) Rev: 1

0ct23/17

May8/19

/av3/21

Aar24/15