

PROBLEM SUMMARY

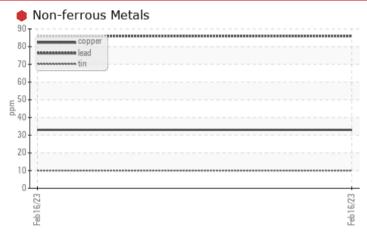


WEAR

KMGP UNIT 2

Component Outboard Pump Fluid ROYAL PURPLE SYNFILM GT 32 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

| PROBLEMATIC TEST RESULTS | | | | | | | | |
|--------------------------|--------|-------------|------|-------------|--|--|--|--|
| Sample Status | | | | SEVERE | | | | |
| Lead | ppm | ASTM D5185m | >12 | 86 | | | | |
| Copper | ppm | ASTM D5185m | >30 | A 33 | | | | |
| Tin | ppm | ASTM D5185m | >9 | <u> </u> | | | | |
| Debris | scalar | *Visual | NONE | 🔺 MODER | | | | |

Customer Id: MAGHOU Sample No.: RP0028243 Lab Number: 05797619 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

| RECOMMENDED AC | CTIONS | | | |
|---------------------|--------|------|---------|---|
| Action | Status | Date | Done By | Description |
| Inspect Wear Source | | | ? | We advise that you inspect for the source(s) of wear. |
| Change Filter | | | ? | We recommend you service the filters on this component if applicable. |
| Resample | | | ? | We recommend an early resample to monitor this condition. |

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT



KMGP UNIT 2

Outboard Pump Fluid ROYAL PURPLE SYNFILM GT 32 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛑 Wear

Bearing and/or bushing wear is indicated.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

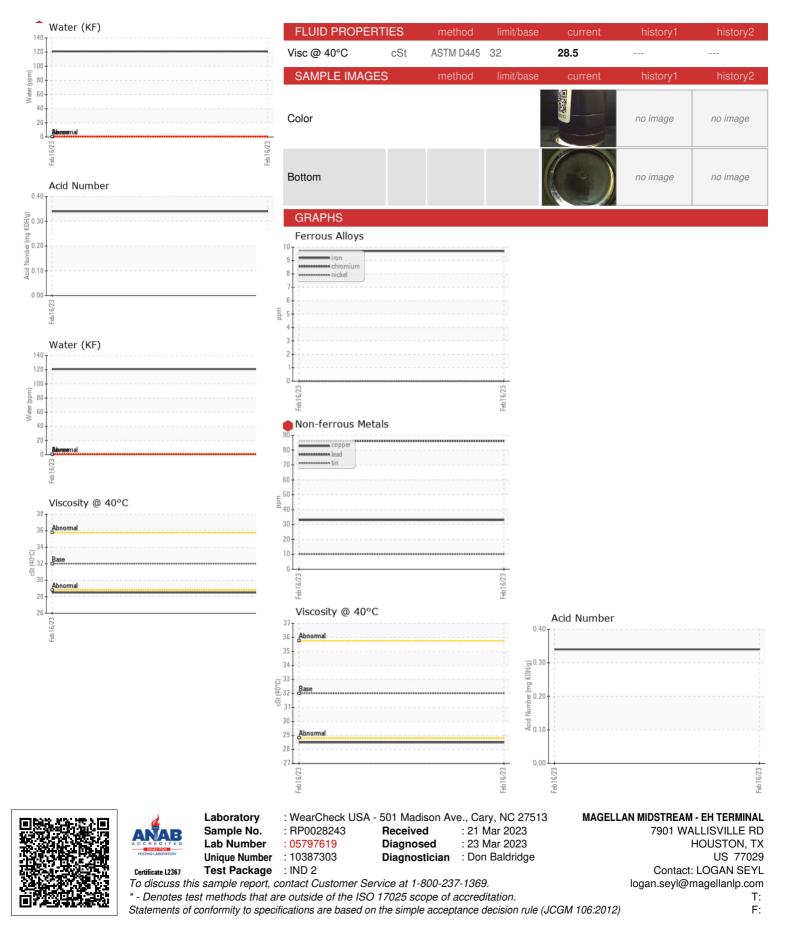
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION method Imit/base current history1 history2 Sample Date Client Info RP0028243 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Sample Status Client Info 0 WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5165m >90 10 WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM D5165m >90 10 Mainum ppm ASTM D5165m >3 0 Lead ppm ASTM D5165m >12 86 Auminum ppm ASTM D5165m 0 Vanadium ppm< | | | | | Feb 2023 | | |
|---|------------------|----------|-------------|------------|-------------|---------------|-----------|
| Sample Date Client Info 16 Feb 2023 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Sample Status Client Info N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185n >50 0 Nickel ppm ASTM 05185n >5 0 Auminum ppm ASTM 05185n >3 0 Aduminum ppm ASTM 05185n >1 Aduminum ppm ASTM 05185n >10 Cadmium ppm ASTM 05185n >10 Adminum ppm ASTM 05185n 0 | SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Machine Age hrs Client Info 0 Oil Age hrs Client Info N/A Sample Status I Issue Status Issue Status WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM DS185m >50 0 Nickel ppm ASTM DS185m >50 0 Silver ppm ASTM DS185m >3 0 Copper ppm ASTM DS185m >7 <1 Vanadium ppm ASTM DS185m >1 Vanadium ppm ASTM DS185m 0 Rorn ppm ASTM DS185m 0 | Sample Number | | Client Info | | RP0028243 | | |
| Oil Age hrs Client Info 0 Oil Changed Client Info N/A Sample Status Client Info N/A WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05185m >5 0 Nickel ppm ASTM 05185m >3 0 Aluminum ppm ASTM 05185m >3 0 Auminum ppm ASTM 05185m >3 0 Auminum ppm ASTM 05185m >10 Auminum ppm ASTM 05185m 0 Auminum ppm ASTM 05185m 0 Astm 05185m 0 | Sample Date | | Client Info | | 16 Feb 2023 | | |
| Oil Changed Client Info N/A Sample Status Image of the status I | Machine Age | hrs | Client Info | | 0 | | |
| Sample Status method Imit/base current history1 history2 Iron ppm ASTM D5185m >90 10 Othormium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >3 0 Lead ppm ASTM D5185m >20 A33 Copper ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m 0 Magnagium ppm ASTM D5185m 0 Malydenum ppm ASTM D5185m 0 | Oil Age | hrs | Client Info | | 0 | | |
| WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05165m >30 10 Nickel ppm ASTM 05165m >5 0 Nickel ppm ASTM 05165m >5 0 Aluminum ppm ASTM 05165m >3 0 Aluminum ppm ASTM 05165m >7 <1 | Oil Changed | | Client Info | | N/A | | |
| Iron ppm ASTM D5185n >90 10 Chromium ppm ASTM D5185n >55 0 Nickel ppm ASTM D5185n >55 0 Silver ppm ASTM D5185n >3 0 Aluminum ppm ASTM D5185n >12 86 Aluminum ppm ASTM D5185n >12 86 Copper ppm ASTM D5185n >9 10 Vanadium ppm ASTM D5185n >9 10 ASTM D5185n 0 0 ASTM D5185n 0 Molybdenum ppm ASTM D5185n 0 Molybdenum ppm ASTM D5185n 0 | Sample Status | | | | SEVERE | | |
| Iron ppm ASTM D5185n >90 10 Chromium ppm ASTM D5185n >5 0 Nickel ppm ASTM D5185n >5 0 Silver ppm ASTM D5185n >3 0 Aluminum ppm ASTM D5185n >7 <1 Aluminum ppm ASTM D5185n >7 <1 Copper ppm ASTM D5185n >9 10 Vanadium ppm ASTM D5185n >0 ADDITIVES method Imit/base current history1 history2 Barun ppm ASTM D5185n 0 | WEAR METALS | | method | limit/base | current | history1 | history2 |
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| Titanium ppm ASTM D5185m >3 0 Silver ppm ASTM D5185m >7 <1 Aluminum ppm ASTM D5185m >7 <1 Lead ppm ASTM D5185m >12 866 Copper ppm ASTM D5185m >9 10 Vanadium ppm ASTM D5185m >9 10 Cadmium ppm ASTM D5185m 0 ADDITIVES method Imil/base current History1 History2 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 0 21 | | | | | - | | |
| Silver ppm ASTM D5185m >3 0 Aluminum ppm ASTM D5185m >77 <1 | | | | | - | | |
| Aluminum ppm ASTM D5185m >7 <1 | | | | | - | | |
| Lead ppm ASTM D5185m >12 86 Copper ppm ASTM D5185m >30 33 Vanadium ppm ASTM D5185m >9 10 Cadmium ppm ASTM D5185m 0 ADDITIVES method limil/base current history1 history2 Boron ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 0 Maganese ppm ASTM D5185m 14 Maganese ppm ASTM D5185m 14 Zinc ppm ASTM D5185m 0 Sodium ppm ASTM D5185m 0 Sodium ppm ASTM D5185m >60 22 Sodium ppm ASTM D5185m >20 0 Sodium pp | | | | | - | | |
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| ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 14 Calcium ppm ASTM D5185m 14 Calcium ppm ASTM D5185m 0 Zinc ppm ASTM D5185m 0 Zinc ppm ASTM D5185m 0 Silicon ppm ASTM D5185m >60 22 Sodium ppm ASTM D5185m >20 0 Vater % ASTM D5185m >20 0 Potassium ppm ASTM D504 >.1 120.9 Visual NONE | | | | | - | | |
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| BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MaganeseppmASTM D5185m14MagnesiumppmASTM D5185m14CalciumppmASTM D5185m0PhosphorusppmASTM D5185m0ZincppmASTM D5185m0CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>6022SodiumppmASTM D5185m>200PotassiumppmASTM D5185m>200Water%ASTM D6304>.1120.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONEVISUALmethodlimit/basecurrenthistory1Velow Metalscalar*VisualNONESiltscalar*VisualNONENONESiltscalar*VisualNONEMODERDebrisscalar*VisualNONEMODESiltscalar*VisualNONEMODE< | | | | limit/base | | history1 | history2 |
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| SiliconppmASTM D5185m>6022SodiumppmASTM D5185m<1 | Zinc | ppm | ASTM D5185m | | 9 | | |
| SodiumppmASTM D5185m<1 | CONTAMINANTS | \$ | method | limit/base | current | history1 | history2 |
| PotassiumppmASTM D5185m>200Water%ASTM D63040.012ppm WaterppmASTM D6304>.1120.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.34VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONELIGHTYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEG | Silicon | ppm | ASTM D5185m | >60 | 22 | | |
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| ppm WaterppmASTM D6304>.1120.9FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80450.34VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONELIGHTYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONEMODERDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLGdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEG | Potassium | ppm | ASTM D5185m | >20 | 0 | | |
| FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80450.34VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONELIGHTYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | Water | % | ASTM D6304 | | 0.012 | | |
| Acid Number (AN)mg KOHgASTM D80450.34VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONELIGHTYellow Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNEG | ppm Water | ppm | ASTM D6304 | >.1 | 120.9 | | |
| VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONELIGHTYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| White Metalscalar*VisualNONELIGHTYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.34 | | |
| Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | VISUAL | | method | limit/base | current | history1 | history2 |
| Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | White Metal | scalar | *Visual | NONE | LIGHT | | |
| Siltscalar*VisualNONENONEDebrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | Yellow Metal | scalar | *Visual | NONE | NONE | | |
| Debrisscalar*VisualNONEMODERSand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | Precipitate | scalar | *Visual | NONE | NONE | | |
| Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | Silt | scalar | *Visual | NONE | NONE | | |
| Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | Debris | scalar | *Visual | NONE | | | |
| Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNEG | Sand/Dirt | | | | NONE | | |
| Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual NEG | | scalar | | | NORML | | |
| Emulsified Water scalar *Visual NEG | ••• | | | | | | |
| | | | | | | | |
| | Free Water | scalar | *Visual | | NEG | tion: LOGAN S | EYLMAGHOL |



OIL ANALYSIS REPORT



Contact/Location: LOGAN SEYL - MAGHOU