

OIL ANALYSIS REPORT

Area KANSAS/44/EG - SKID STEER 53.153L [KANSAS^44^EG - SKID STEER]

Left Final Drive

Fluid MOBIL MOBILUBE HD PLUS 75W90 (0 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

🔺 Wear

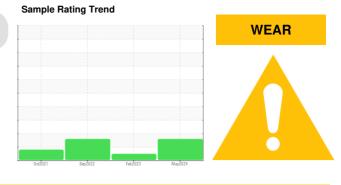
Gear wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

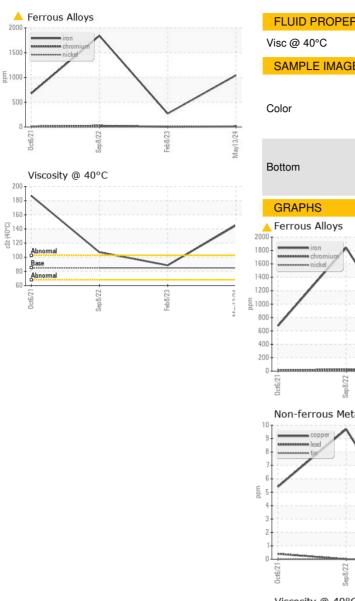
The condition of the oil is acceptable for the time in service.



| Sample Date Client Info 13 May 2024 08 Feb 2023 08 Sep 2022 Machine Age hrs Client Info 0 1956 1528 Oil Age hrs Client Info 0 428 923 Oil Changed Client Info Not Changd Not Changd Changed Sample Status method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Kornonium ppm ASTM 05185m >10 0 client client client Kornonium ppm ASTM 05185m >10 0 client client client Silver ppm ASTM 05185m >25 9 4 19 Lead ppm ASTM 05185m >25 0 0 0 Qopper ppm ASTM 05185m >20 0 0 <th>SAMPLE INFORM</th> <th>ATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th> | SAMPLE INFORM | ATION | method | limit/base | current | history1 | history2 |
|--|---------------|--------|-------------|------------|-------------|-----------------|--------------|
| Machine Age Oil AgehrsClient Info019561528Oil Age Oil ChangedClient InfoNot Changed ABNORMALNOR Changed NOR Changed ABNORMALNORMAL ABNORMALABNORMALCONTAMINATIONmethodImitbasecurrenthistory1history2WaterWC Method>0.2NEGNEGNEGWEAR METALSmethodImitbasecurrenthistory1history2IronppmASTM05185>50010422711841ChromiumppmASTM05185>1012325NickelppmASTM05185>259419LeadppmASTM05185>25000AuminumppmASTM05185>5022100TinppmASTM05185>5021000CopperppmASTM05185>5021000AntimoryppmASTM05185>5021000AntimoryppmASTM051855AntimoryppmASTM051855AntimoryppmASTM05185133183161BariumppmASTM05185133183161AntimoryppmASTM05185133133161AntimoryppmASTM0518517114443AntimoryppmASTM0518517114443< | Sample Number | | Client Info | | WC0901153 | WC0741818 | WC0712140 |
| Machine Age Oil AgehrsClient Info019561528Oil Age Oil ChangedClient InfoNot Changed ABNORMALNOR Changed NOR Changed ABNORMALNORMAL ABNORMALABNORMALCONTAMINATIONmethodImitbasecurrenthistory1history2WaterWC Method>0.2NEGNEGNEGWEAR METALSmethodImitbasecurrenthistory1history2IronppmASTM05185>50010422711841ChromiumppmASTM05185>1012325NickelppmASTM05185>259419LeadppmASTM05185>25000AuminumppmASTM05185>5022100TinppmASTM05185>5021000CopperppmASTM05185>5021000AntimoryppmASTM05185>5021000AntimoryppmASTM051855AntimoryppmASTM051855AntimoryppmASTM05185133183161BariumppmASTM05185133183161AntimoryppmASTM05185133133161AntimoryppmASTM0518517114443AntimoryppmASTM0518517114443< | Sample Date | | Client Info | | 13 May 2024 | 08 Feb 2023 | 08 Sep 2022 |
| Oil Age hrs Client Info Not Changed ABNORMAL ABNORMAL ABNORMAL ABNORMAL Changed ABNORMAL Contraminic Matter and the second of th | | hrs | | | - | | 1528 |
| Oil Changed Client Info Not Changed Not Changed Changed Sample Status Image Image ABNORMAL MORMAL ABNORMAL CONTAMINATION method limit/base current history1 Mistory2 Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 A 1841 Chromium ppm ASTM 05185m >10 12 3 4 Chromium ppm ASTM 05185m >10 0 <1 | • | hrs | Client Info | | 0 | 428 | 923 |
| Sample Statusmethodimit/basecurrenthistory1ABNORMALCONTAMINATIONmethodimit/basecurrenthistory1history2WaterWC Method>0.2NEGNEGNEGWEAR METALSmethodimit/basecurrenthistory1history2IronppmASTM D5185m>50010422711841ChromiumppmASTM D5185m>100<1 | - | | Client Info | | Not Changd | Not Chanod | Changed |
| CONTAMINATION method limit/base current history1 history2 Water WC Method >0.2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >500 1042 271 A 1841 Chromium ppm ASTM D5185m >10 0 <1 | - | | | | • | | Ū |
| Water WC Method >0.2 NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >500 1042 271 1841 Chromium ppm ASTM D5185m >10 0 <1 <1 Nickel ppm ASTM D5185m >10 0 <1 <1 Silver ppm ASTM D5185m >25 9 4 19 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >55 Vanadium ppm ASTM D5185m >10 0 0 0 Cadmium ppm ASTM D5185m >10 0 0 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 | | | method | limit/base | current | history1 | history2 |
| Iron ppm ASTM D5185m >500 1042 271 1841 Chromium ppm ASTM D5185m >10 12 3 25 Nickel ppm ASTM D5185m >10 0 <1 | Water | | WC Method | | | | |
| Dromium ppm ASTM D5185m >10 12 3 25 Nickel ppm ASTM D5185m >10 0 <1 | WEAR METALS | | method | limit/base | current | history1 | history2 |
| Chromium ppm ASTM D5185m >10 ▲ 12 3 ▲ 25 Nickel ppm ASTM D5185m >10 0 <1 | Iron | ppm | ASTM D5185m | >500 | 1042 | 271 | 1 841 |
| NickelppmASTM D5185m>100<1<1TitaniumppmASTM D5185m000AluminumppmASTM D5185m>259419LeadppmASTM D5185m>25000CopperppmASTM D5185m>502210TinppmASTM D5185m>502210AntimonyppmASTM D5185m>5VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m00012ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m13318316112MolybdenumppmASTM D5185m<11 | Chromium | | ASTM D5185m | >10 | <u> </u> | 3 | ▲ 25 |
| Titanium ppm ASTM D5185m <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 | | • • | | | | | |
| SilverppmASTM D5185m0000AluminumppmASTM D5185m>259419LeadppmASTM D5185m>25000CopperppmASTM D5185m>502210TinppmASTM D5185m>502210AntimonyppmASTM D5185m55VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m0000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m133183161BariumppmASTM D5185m0<1 | | | | | - | | |
| Aluminum ppm ASTM D5185m >25 9 4 19 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >50 2 2 10 Tin ppm ASTM D5185m >10 0 0 0 Antimony ppm ASTM D5185m >5 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 <11 | | | | | | | |
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| TinppmASTM D5185m>10000AntimonyppmASTM D5185m>5VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m000<1 | | | | | | | |
| AntimonyppmASTM D5185m>5VanadiumppmASTM D5185m000CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m133183161BariumppmASTM D5185m0<1 | | | | | | | |
| VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m00<1 | | | | | - | | |
| CadmiumppmASTM D5185m00<1ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m133183161BariumppmASTM D5185m0<1 | , | ppm | | >5 | | | |
| ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m133183161BariumppmASTM D5185m0<1 | Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| BoronppmASTM D5185m133183161BariumppmASTM D5185m0<1 | Cadmium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| BariumppmASTM D5185m0<1 | ADDITIVES | | method | limit/base | current | history1 | history2 |
| MolybdenumppmASTM D5185m<1<11ManganeseppmASTM D5185m044MagnesiumppmASTM D5185m044CalciumppmASTM D5185m0411534PhosphorusppmASTM D5185m171814291734ZincppmASTM D5185m71443SulfurppmASTM D5185m268691958625192CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75522162SodiumppmASTM D5185m>203211PotassiumppmASTM D5185m>20326VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAstricturescalar*VisualNONENONENONENONENONEQuito and and anticturescalar*VisualNONENONENONENONEAstricturescalar*VisualNONENONENONENONENONEQuito anticture <td>Boron</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>133</th> <td>183</td> <td>161</td> | Boron | ppm | ASTM D5185m | | 133 | 183 | 161 |
| MaganeseppmASTM D5185m829MagnesiumppmASTM D5185m044CalciumppmASTM D5185m411534PhosphorusppmASTM D5185m171814291734ZincppmASTM D5185m71443SulfurppmASTM D5185m71443SulfurppmASTM D5185m268691958625192CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75522162SodiumppmASTM D5185m>203211PotassiumppmASTM D5185m>20326VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAstronescalar*VisualNONENONENONENONENONEAstroscalar*VisualNONENONENONENONENONEAstroscalar*Visua | Barium | ppm | ASTM D5185m | | 0 | <1 | 12 |
| MagnesiumppmASTM D5185m044CalciumppmASTM D5185m411534PhosphorusppmASTM D5185m171814291734ZincppmASTM D5185m71443SulfurppmASTM D5185m268691958625192CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75522162SodiumppmASTM D5185m>203211PotassiumppmASTM D5185m>20326VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORML | Molybdenum | ppm | ASTM D5185m | | <1 | <1 | 1 |
| CalciumppmASTM D5185m411534PhosphorusppmASTM D5185m171814291734ZincppmASTM D5185m71443SulfurppmASTM D5185m268691958625192CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75522162SodiumppmASTM D5185m>75522162SodiumppmASTM D5185m>203211PotassiumppmASTM D5185m>20326VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAgpearancescalar*VisualNORMLNORMLNORMLNORMLQdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG | Manganese | ppm | ASTM D5185m | | 8 | 2 | 9 |
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| ZincppmASTM D5185m71443SulfurppmASTM D5185m268691958625192CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75522162SodiumppmASTM D5185m3211PotassiumppmASTM D5185m>20326VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG | Calcium | ppm | ASTM D5185m | | 41 | 15 | 34 |
| ZincppmASTM D5185m71443SulfurppmASTM D5185m268691958625192CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>75522162SodiumppmASTM D5185m3211PotassiumppmASTM D5185m>20326VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG | Phosphorus | | | | 1718 | 1429 | 1734 |
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| PotassiumppmASTM D5185m>20326VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG | | | | 210 | - | | |
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| Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG | • | | | | | | |
| Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG | | | | | | | |
| Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG | | | | | | | |
| Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG | | | | | | | |
| Emulsified Water scalar *Visual >0.2 NEG NEG NEG | | | | | | | |
| | Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Free Water scalar *Visual NEG Submitted By: JAM Scalar | | scalar | *Visual | >0.2 | NEG | | |
| | Free Water | scalar | *Visual | | NEG | Submitted By: J | AMEEMOORI |



OIL ANALYSIS REPORT







Report Id: SHEWIC [WUSCAR] 06183231 (Generated: 05/21/2024 13:47:31) Rev: 1

Submitted By: JAMES MOORE

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