

OIL ANALYSIS REPORT

Sample Rating Trend



NORDBERG 5026

Component Gearbox Fluid SHELL OMALA 68 (200 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

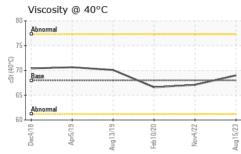
Fluid Condition

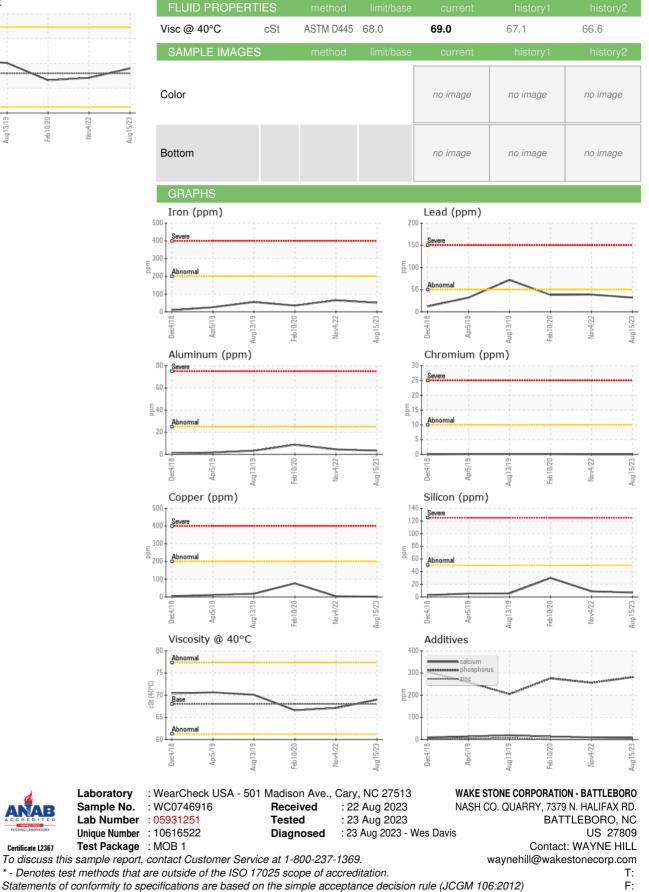
The condition of the oil is acceptable for the time in service.

Sample Number Client Info WC0749916 WC0633918 WC0427782 Sample Date Client Info 15 Aug 2023 04 Nov 2022 10 Feb 2020 Machine Age hrs Client Info 41313 39932 35277 Oil Age hrs Client Info 500 500 500 Oil Changed Client Info N/A N/A NoTMAIL NORMAL Sample Status Imathod Imit/base current history1 history2 Water WC Method >0.2 NEG NEG NCG Water WC Method >0.2 NEG NEG NCG Kononium ppm ASTM 05185m >0 0 <1 1 Kononium ppm ASTM 05185m >10 0 <1 1 1 7 Kononium ppm ASTM 05185m >200 1 4 7 1 7 Kononium ppm ASTM 05185m >10 <1 7	SAMPLE INFORM		method	limit/base	current	history1	history2
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Drom ASTM D5185m >10 0 0 <11	WEAR METALS		method	limit/base	current	history1	history2
NickelppmASTM D5185m>1000<1	Iron	ppm	ASTM D5185m	>200	51	65	35
Titanium ppm ASTM D5185m 0 0 <1	Chromium	ppm	ASTM D5185m	>10	0	0	<1
SilverppmASTM D5185m00<1	Nickel	ppm	ASTM D5185m	>10	0	0	<1
Aluminum ppm ASTM D5185m >25 3 4 9 Lead ppm ASTM D5185m >50 32 39 38 Copper ppm ASTM D5185m >200 1 4 77 Tin ppm ASTM D5185m >10 <1 <1 7 Antimony ppm ASTM D5185m >5 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Magnaese ppm ASTM D5185m 1 <1 <1 <1 Magnesium ppm ASTM D5185m 281 256 27 Calcium ppm ASTM D5185m 20 0 0	Titanium	ppm	ASTM D5185m		0	0	<1
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Copper ppm ASTM D5185m >200 1 4 77 Tin ppm ASTM D5185m >10 <1 <11 7 Antimony ppm ASTM D5185m >5 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 1 <1 <1 <1 Magnesium ppm ASTM D5185m 1 <1 <1 2 Calcium ppm ASTM D5185m 281 256 276 2 Zinc ppm ASTM D5185m 9273 10245 7147 CONTAMINANTS method imit/base current history1 histor	Aluminum	ppm	ASTM D5185m	>25	3		9
TinppmASTM D5185m>10<1	Lead	ppm	ASTM D5185m	>50	32		
AntimonyppmASTM D5185m>50VanadiumppmASTM D5185m0000CadmiumppmASTM D5185m0000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m032BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1MaganeseppmASTM D5185m1<1<1MagnesiumppmASTM D5185m1<1<1PhosphorusppmASTM D5185m281256276ZincppmASTM D5185m9273102457147CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507930SodiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYelpow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONESodr/Dirtscalar*VisualNONENONENONENONENONEAstm D5185mscalar*VisualNONENONENONENONE <td< th=""><th>Copper</th><th>ppm</th><th>ASTM D5185m</th><th>>200</th><th>1</th><th>4</th><th>77</th></td<>	Copper	ppm	ASTM D5185m	>200	1	4	77
VanadiumppmASTM D5185m000CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m032BariumppmASTM D5185m0000MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m1<1	Tin	ppm	ASTM D5185m	>10	<1	<1	7
CadmiumppmASTM D5185m000ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m032BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m1<1<1ManganeseppmASTM D5185m1<1<1CalciumppmASTM D5185m281256276CalciumppmASTM D5185m281256276ZincppmASTM D5185m9273102457147CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESilitscalar*VisualNONENONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONENONESand/Dirtiscalar*VisualNONENONENONENONENONENONEColorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLDebris <th>Antimony</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>5</th> <th></th> <th></th> <th>0</th>	Antimony	ppm	ASTM D5185m	>5			0
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m032BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m<1<1<1MagnesiumppmASTM D5185m1<12CalciumppmASTM D5185m81013PhosphorusppmASTM D5185m281256276ZincppmASTM D5185m9273102457147CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507930SodiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONEAstm D5185mscalar*VisualNONENONENONENONEVisualNONENONENONENONENONENONEVisualNONENONENONENONENONESodium <th>Vanadium</th> <th>ppm</th> <th>ASTM D5185m</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Vanadium	ppm	ASTM D5185m		0	0	0
BoronppmASTM D5185m032BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m1<1<1ManganeseppmASTM D5185m1<12CalciumppmASTM D5185m1<12CalciumppmASTM D5185m281256276ZincppmASTM D5185m000SulfurppmASTM D5185m9273102457147CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m507930SodiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONESilitscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*Visual <t< th=""><th>Cadmium</th><th>ppm</th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th>0</th></t<>	Cadmium	ppm	ASTM D5185m		0	0	0
BariumppmASTM D5185m0000MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m1<1<1MagnesiumppmASTM D5185m1<12CalciumppmASTM D5185m81013PhosphorusppmASTM D5185m281256276ZincppmASTM D5185m000SulfurppmASTM D5185m9273102457147CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m507930SodiumppmASTM D5185m507930SodiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLCodorscalar*VisualNORML <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTW D5185m00<1	Boron	ppm	ASTM D5185m		0	3	2
ManganeseppmASTM D5185m<1	Barium	ppm	ASTM D5185m		0	0	0
MagnesiumppmASTM D5185m1<1	Molybdenum	ppm	ASTM D5185m		0	0	<1
CalciumppmASTM D5185m81013PhosphorusppmASTM D5185m281256276ZincppmASTM D5185m000SulfurppmASTM D5185m9273102457147CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507930SodiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONENONESodu/Dirtscalar*VisualNONENONENONENONENONEAstra * VisualNONENONENONENONENONENONESultscalar*VisualNONENONENONENONENONEAstra * VisualNONENONENONENONENONENONENONEOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLColsscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLColsscalar*VisualNORMLNORMLNORMLNORMLNORMLNO	Manganese	ppm	ASTM D5185m		<1	<1	<1
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SulfurppmASTM D5185m9273102457147CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507930SodiumppmASTM D5185m>50622PotassiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Phosphorus	ppm	ASTM D5185m		281	256	276
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>507930SodiumppmASTM D5185m>50622PotassiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Zinc	ppm	ASTM D5185m		0	0	0
SiliconppmASTM D5185m>507930SodiumppmASTM D5185m622PotassiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Sulfur	ppm	ASTM D5185m		9273	10245	7147
SodiumppmASTM D5185m622PotassiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20205VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEG	Silicon	ppm	ASTM D5185m	>50	7	9	30
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Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.2 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG atioNEMAYNE HILLNEMAKBAT	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	ation: AYAYNE	IILLN₽ØAKBAT



OIL ANALYSIS REPORT





Certificate L2367

Contact/Location: WAYNE HILL - WAKBAT