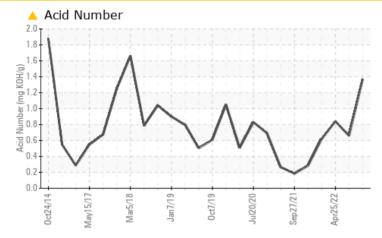


PROBLEM SUMMARY

MOBIL SHC RARUS 46 [40977] SULLAIR 200803060062 - BUZZI Component

Compressor





RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

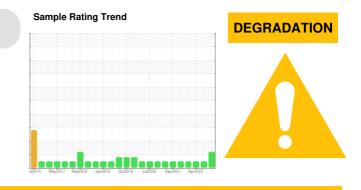
PROBLEMATIC TEST RESULTS								
Sample Status			ATTENTION	NORMAL	NORMAL			
Acid Number (AN)	mg KOH/g	ASTM D8045	 1.37	0.66	0.84			

Customer Id: UCJOHSAI Sample No.: UCH05994483 Lab Number: 05994483 Test Package: IND 2



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

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



RECOMMENDED	RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Change Fluid			?	We recommend that you drain the oil and perform a filter service on this component if not already done.		
Change Filter			?	We recommend that you drain the oil and perform a filter service on this component if not already done.		
Resample			?	We recommend an early resample to monitor this condition.		

HISTORICAL DIAGNOSIS



25 Jul 2022 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

25 Apr 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

14 Mar 2022 Diag: Don Baldridge



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Report Id: UCJOHSAI [WUSCAR] 05994483 (Generated: 11/01/2023 19:00:36) Rev: 1



OIL ANALYSIS REPORT

Area MOBIL SHC RARUS 46 [40977] Machine Id SULLAIR 200803060062 - BUZZI

Compressor

DIAGNOSIS

Recommendation

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Wear

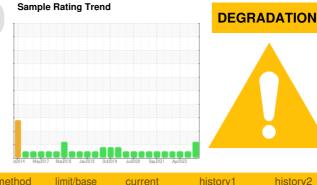
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is above the recommended limit.

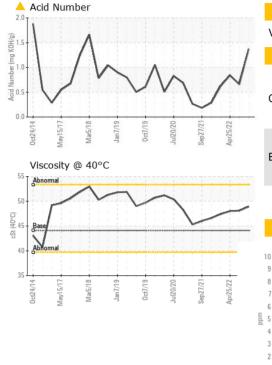


Sample NumberClient InfoUCH0599448UCH05591480UCH0551129UCH05517440Sample DateClient Info13 Oct 20225 Jul 20225 Jul 20225 Jul 20226 Jul 202Machine AgehrsClient Info563016127554Oil OhangedTClient InfoNot ChangdNot ChangdChangedSample StatusIINot ChangdNor ChangeNor ChangeSample StatusIInternorNor MangeNor ChangeNor ChangeNor MEALSmethodIntureIntureIntureIntureIntureInonppmASTM 05185n>50<1<1<1ChromiumppmASTM 05185nInture000NickelppmASTM 05185n>50<1<100SilverppmASTM 05185n>5017212424TinppmASTM 05185n>51<1000CopperppmASTM 05185n>15<1000CadmiumppmASTM 05185nInture0000BoronppmASTM 05185nIntureInture000ManganeseppmASTM 05185nIntureInture000ManganeseppmASTM 05185nIntureIntureInture00ManganeseppmASTM 05185nIntureIntureIntureI	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine AgehrsClient Info901288611084498Oil AgehrsClient Info563016127554Oil ChangedClient InfoNot ChangedNot ChangedChangedSample StatusIImitbasecurrenthistory1NorRMALWEAR METALSmethodlimibbasecurrentnistory1inistory2IronppmASTM 05185m>50<1<1<1ChromiumppmASTM 05185m0000NickelppmASTM 05185m<1000SilverppmASTM 05185m>50<100CopperppmASTM 05185m>50172124TinppmASTM 05185m>51<100CopperppmASTM 05185m>15<100VanadiumppmASTM 05185m0000ADDITVESmethodlimitbasecurrenthistory1history2BoronppmASTM 05185m0000MaganeseppmASTM 05185m0000AddumppmASTM 05185m0000CottAMIMONEppmASTM 05185m0000MaganeseppmASTM 05185m0000SiltorppmASTM 05185m261401Soltumppm <t< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>UCH05994483</th><th>UCH05611329</th><th>UCH05537446</th></t<>	Sample Number		Client Info		UCH05994483	UCH05611329	UCH05537446
Oil AgehrsClient Info563016127554Oil ChangedClient InfoNot ChangedNot ChangedChangedSample StatusImit/basecurrentNot ChangedWEAR METALSmethodlimit/basecurrenthistorylNormALNormiumppmASTM D5185m>50<1	Sample Date		Client Info		13 Oct 2023	25 Jul 2022	25 Apr 2022
Oil Changed Sample StatusClient InfoNot Changed ATTENTIONNot Changed NORMALChanged NORMALWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D518m>50<1	Machine Age	hrs	Client Info		90128	86110	84498
Sample StatusImage: Mathematical StatusArtentionNORMALNORMALWEAR METALSmethodlimit/basecurrenthistory1history2IronppmASTM D5186>50<1	Oil Age	hrs	Client Info		5630	1612	7554
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185n >50 <1	Oil Changed		Client Info		Not Changd	Not Changd	Changed
IronppmASTM D5185m>50<1<1<1<1ChromiumppmASTM D5185m>10<1	Sample Status				ATTENTION	NORMAL	NORMAL
ChromiumppmASTM D5185m>10<100NickelppmASTM D5185m0000TitaniumppmASTM D5185m0000SilverppmASTM D5185m>250<1	WEAR METALS		method	limit/base	current	history1	history2
NickelppmASTM D5188m0000TitaniumppmASTM D5188m<1	Iron	ppm	ASTM D5185m	>50	<1	<1	<1
TitaniumppmASTM D5185m<	Chromium	ppm	ASTM D5185m	>10	<1	0	0
SilverppmASTM D5185m000AluminumppmASTM D5185m>250<1	Nickel	ppm	ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m >25 0 <1 0 Lead ppm ASTM D5185m >25 0 0 0 Copper ppm ASTM D5185m >15 <1	Titanium	ppm	ASTM D5185m		<1	0	0
LeadppmASTM D5185m>25000CopperppmASTM D5185m>50172124TinppmASTM D5185m>15<1	Silver	ppm	ASTM D5185m		0	0	0
Copper CopperppmASTM D5185m>50172124TinppmASTM D5185m>15<1	Aluminum	ppm	ASTM D5185m	>25	0	<1	0
TinppmASTM D5185m<>15<100VanadiumppmASTM D5185m<1	Lead	ppm	ASTM D5185m	>25	0	0	0
VanadiumppmASTM D5185m00CadmiumppmASTM D5185m00	Copper	ppm	ASTM D5185m	>50	17	21	24
CadmiumppmASTM D5185m<100ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m000BariumppmASTM D5185m000MolybdenumppmASTM D5185m000MagneseppmASTM D5185m000MagnesiumppmASTM D5185m000MagnesiumppmASTM D5185m000CalciumppmASTM D5185m6799113ZincppmASTM D5185m6799113SulfurppmASTM D5185m193229196CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25<1	Tin	ppm	ASTM D5185m	>15	<1	0	0
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m000BariumppmASTM D5185m000MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m000MagnesiumppmASTM D5185m000CalciumppmASTM D5185m000CalciumppmASTM D5185m6799113ZincppmASTM D5185m6799113SulfurppmASTM D5185m140<1	Vanadium	ppm	ASTM D5185m		<1	0	0
BoronppmASTM D5185m000BariumppmASTM D5185m1900MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m000MagnesiumppmASTM D5185m000CalciumppmASTM D5185m000CalciumppmASTM D5185m6799113ZincppmASTM D5185m6799113SulfurppmASTM D5185m193229196CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m25<1	Cadmium	ppm	ASTM D5185m		<1	0	0
BariumppmASTM D5185m1900MolybdenumppmASTM D5185m000MagneseeppmASTM D5185m000MagnesiumppmASTM D5185m000CalciumppmASTM D5185m000PhosphorusppmASTM D5185m6799113ZincppmASTM D5185m6799113SulfurppmASTM D5185m1140<1	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m000MagnesiumppmASTM D5185m000CalciumppmASTM D5185m6799113ZincppmASTM D5185m6799113ZincppmASTM D5185m140<1	Boron	ppm	ASTM D5185m		0	0	0
ManganeseeppmASTM D5185m<100MagnesiumppmASTM D5185m000CalciumppmASTM D5185m6799113PhosphorusppmASTM D5185m6799113ZincppmASTM D5185m140<1	Barium	ppm	ASTM D5185m		19	0	0
MagnesiumppmASTM D5185m000CalciumppmASTM D5185m<1	Molybdenum	ppm	ASTM D5185m		0	0	0
CalciumppmASTM D5185m<10<1PhosphorusppmASTM D5185m6799113ZincppmASTM D5185m140<1	Manganese	ppm	ASTM D5185m		<1	0	0
PhosphorusppmASTM D5185m6799113ZincppmASTM D5185m140<1	Magnesium	ppm	ASTM D5185m		0	0	0
ZincppmASTM D5185m140<1SulfurppmASTM D5185m193229196CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25<1	Calcium	ppm	ASTM D5185m		<1	0	<1
SulfurppmASTM D5185m193229196CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25<1	Phosphorus	ppm	ASTM D5185m		67	99	113
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25<1	Zinc	ppm	ASTM D5185m		14	0	<1
SiliconppmASTM D5185m>25<101SodiumppmASTM D5185m281415PotassiumppmASTM D5185m>20202FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D80451.370.660.84VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLDebrisscalar*VisualNORMLNORMLNORMLNORMLAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Sulfur	ppm	ASTM D5185m		193	229	196
SodiumppmASTM D5185m281415PotassiumppmASTM D5185m>20202FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80451.370.660.84VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	CONTAMINANTS		method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>20202FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOHgASTM D8045AT.370.660.84VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLNEGNEG	Silicon	ppm		>25	<1		1
FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2Acid Number (AN)mg KOH/gASTM D80451.370.660.84VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Sodium	ppm	ASTM D5185m		28	14	15
Acid Number (AN)mg KOH/gASTM D8045A 1.370.660.84VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEGNEG	Potassium	ppm	ASTM D5185m	>20	2	0	2
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONEPrecipitatescalar*VisualNONENONENONENONENONESiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEGNEG	Acid Number (AN)	mg KOH/g	ASTM D8045		1.37	0.66	0.84
Yellow Metalscalar*VisualNONENONENONENONEPrecipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONENONENONESiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	White Metal	scalar	*Visual	NONE		NONE	NONE
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGNEG	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML NORML Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water scalar *Visual >0.1 NEG NEG NEG	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Free Water scalar *Visual NEG NEG NEG	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG

Contact/Location: RACHEL VON HATTEN - UCJOHSAI

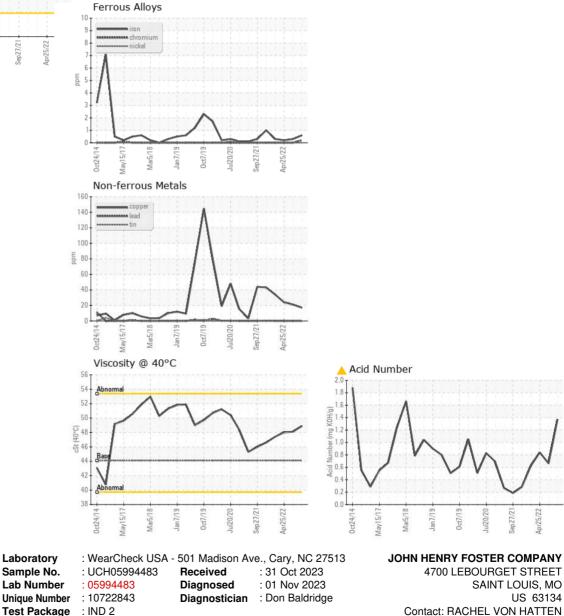


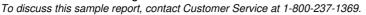
OIL ANALYSIS REPORT











* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: UCJOHSAI [WUSCAR] 05994483 (Generated: 11/01/2023 19:00:38) Rev: 1

Certificate L2367

pr25/22.

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ep27/2

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