

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

Area SULLUBE [418040] SULLAIR 201612230011 - INFINEUM Component Compressor

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.

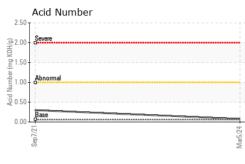
Fluid Condition

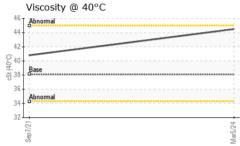
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Number Client Info UCH06142347 UCH05351629 Sample Date Client Info 95 Mar 2024 07 Sep 2021 Machine Age hrs Client Info 55438 33662 Oil Age hrs Client Info 1797 6714 Oil Changed Client Info NORMAL NORMAL Sample Status Imit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >10 <1 0 Nickel ppm ASTM D5185m >10 <1 0 Aluminum ppm ASTM D5185m >25 2 1 Lead ppm ASTM D5185m >50 1 5 Autiminum ppm ASTM D5185m <th>SAMPLE INFORM</th> <th>1ATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Date Client Info 05 Mar 2024 07 Sep 2021 Machine Age hrs Client Info 55438 33662 Oil Age hrs Client Info 1797 6714 Oil Changed Client Info Not Changed NorRMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 Nickel ppm ASTM D5185m >10 <1 0 Aluminum ppm ASTM D5185m >25 2 1 Lead ppm ASTM D5185m >50 1 0 Aluminum ppm ASTM D5185m <1 0	Sample Number		Client Info		UCH06142347	UCH05351629	
Machine Age hrs Client Info 55438 33662 Oil Age hrs Client Info 1797 6714 Oil Changed Client Info Not Changed Changed Sample Status Imitibase current history1 history2 Water WC Method >0.1 NEG NCRMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >10 <1 0 Nickel ppm ASTM D5185m >50 <1 0 Silver ppm ASTM D5185m >25 2 1 Auminum ppm ASTM D5185m >50 1 5 Copper<			Client Info		05 Mar 2024	07 Sep 2021	
Oil Age hrs Client Info 1797 6714 Oil Changed Client Info Not Changd Changed Sample Status Client Info NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 Nickel ppm ASTM D5185m 0 0 Aluminum ppm ASTM D5185m <1 0 Aluminum ppm ASTM D5185m <25 2 1 Aluminum ppm ASTM D5185m >50 1 5 Aluminum ppm ASTM D5185m >15 <1 0 Antimony		hrs			55438		
Oil Changed Sample Status Client Info Not Changd NORMAL Changed NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 Nickel ppm ASTM D5185m 10 <1 0 Nickel ppm ASTM D5185m <1 0 Silver ppm ASTM D5185m <2 1 Lead ppm ASTM D5185m >25 2 1 Antimony ppm ASTM D5185m >50 1 5 Antimony ppm ASTM D5185m >50 1 5 Antimony ppm ASTM D5185m >50 1 0 Antimony ppm ASTM D5185m <1 0 Antimony ppm ASTM D5185m <1 0 Cadmium ppm ASTM D5185m 0 0 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>1797</th> <th>6714</th> <th></th>	Oil Age	hrs	Client Info		1797	6714	
Sample Status Image: Normal status NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 Othornium ppm ASTM D5185m 0 <1 0 Nickel ppm ASTM D5185m 25 2 1 Aluminum ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >50 1 5 Namony ppm ASTM D5185m >50 1 0 Copper ppm ASTM D5185m 0 0 0 Antimony ppm ASTM D5185m 0 0 <t< th=""><th>-</th><th></th><th>Client Info</th><th></th><th>Not Changd</th><th>Changed</th><th></th></t<>	-		Client Info		Not Changd	Changed	
Water WC Method >0.1 NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 Chromium ppm ASTM D5185m >10 <1 0 Nickel ppm ASTM D5185m 0 0 Nickel ppm ASTM D5185m >25 2 1 Silver ppm ASTM D5185m >25 0 0 Aluminum ppm ASTM D5185m >25 0 0 Aluminum ppm ASTM D5185m >25 0 0 Additum ppm ASTM D5185m >55 1 0 Antimony ppm ASTM D5185m >15 <1 0 Additum pm ASTM D5185m 669 3	-				NORMAL		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 <1 0 Chromium ppm ASTM D5185m 0 0 Nickel ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m <1 0 Aluminum ppm ASTM D5185m <25 2 1 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >50 1 5 Antimony ppm ASTM D5185m >50 1 0 Cadmium ppm ASTM D5185m <1 0 Cadmium ppm ASTM D5185m <1 0 Boron ppm ASTM D5185m 745 569 394	CONTAMINATION	١	method	limit/base	current	history1	history2
Iron ppm ASTM D5185m >50 <1	Water		WC Method	>0.1	NEG	NEG	
Chromium ppm ASTM D5185m >10 <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185m 0 0 Titanium ppm ASTM D5185m <1 0 Silver ppm ASTM D5185m <1 0 Aluminum ppm ASTM D5185m >25 2 1 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >50 1 5 Tin ppm ASTM D5185m >15 <1 0 Antimony ppm ASTM D5185m 0 Cadmium ppm ASTM D5185m <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0.0 <1	Iron	ppm	ASTM D5185m	>50	<1	0	
Titanium ppm ASTM D5185m <1	Chromium	ppm	ASTM D5185m	>10	<1	0	
Silver ppm ASTM D5185m <1	Nickel	ppm	ASTM D5185m		0	0	
Aluminum ppm ASTM D5185m >25 2 1 Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >50 1 5 Tin ppm ASTM D5185m >15 <1 0 Antimony ppm ASTM D5185m >15 <1 0 Vanadium ppm ASTM D5185m 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 Barium ppm ASTM D5185m 745 569 394 Magnaese ppm ASTM D5185m 0.0 0 Magnesium ppm A	Titanium	ppm	ASTM D5185m		<1	0	
Lead ppm ASTM D5185m >25 0 0 Copper ppm ASTM D5185m >50 1 5 Tin ppm ASTM D5185m >15 <1 0 Antimony ppm ASTM D5185m >15 <1 0 Vanadium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 Molybdenum ppm ASTM D5185m 0.0 0 Magnesium ppm ASTM D5185m 0.0 <1 0 Calcium ppm ASTM D5185m 0.0 <1 0 Magnesium ppm	Silver	ppm	ASTM D5185m		<1	0	
Copper ppm ASTM D5185m >50 1 5 Tin ppm ASTM D5185m >15 <1 0 Antimony ppm ASTM D5185m 0 Vanadium ppm ASTM D5185m <1 0 Cadmium ppm ASTM D5185m <1 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 <1 Barium ppm ASTM D5185m 745 569 394 Molybdenum ppm ASTM D5185m 0.0 0 Magnesium ppm ASTM D5185m 0.0 <1 Magnesium ppm ASTM D5185m 0.0 Calcium ppm ASTM D5185m 0.1 4 33	Aluminum	ppm	ASTM D5185m	>25	2	1	
Tin ppm ASTM D5185m >15 <1	Lead	ppm	ASTM D5185m	>25	0	0	
AntimonyppmASTM D5185m0VanadiumppmASTM D5185m<10CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0<1BariumppmASTM D5185m0<1MolybdenumppmASTM D5185m745569394MaganeseppmASTM D5185m0.000MagnesiumppmASTM D5185m0.0<10CalciumppmASTM D5185m160PhosphorusppmASTM D5185m340ZincppmASTM D5185m240308206CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25<10SodiumppmASTM D5185m>206140FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Copper	ppm	ASTM D5185m	>50	1	5	
VanadiumppmASTM D5185m<1	Tin	ppm	ASTM D5185m	>15	<1	0	
CadmiumppmASTM D5185m00ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0<1BariumppmASTM D5185m745569394MolybdenumppmASTM D5185m0.000ManganeseppmASTM D5185m0.000MagnesiumppmASTM D5185m0.0<10CalciumppmASTM D5185m160PhosphorusppmASTM D5185m340ZincppmASTM D5185m240308206SulfurppmASTM D5185m240308206SoliconppmASTM D5185m>25<10SodiumppmASTM D5185m>206140FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Antimony	ppm	ASTM D5185m			0	
ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m0<1BariumppmASTM D5185m745569394MolybdenumppmASTM D5185m0.000ManganeseppmASTM D5185m0.000MagnesiumppmASTM D5185m0.0<10CalciumppmASTM D5185m160PhosphorusppmASTM D5185m340ZincppmASTM D5185m240308206SulfurppmASTM D5185m240308206SiliconppmASTM D5185m>25<10SodiumppmASTM D5185m>206140FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Vanadium	ppm	ASTM D5185m		<1	0	
Boron ppm ASTM D5185m 0 <1	Cadmium	ppm	ASTM D5185m		0	0	
Barium ppm ASTM D5185m 745 569 394 Molybdenum ppm ASTM D5185m 0.0 0 0 Manganese ppm ASTM D5185m 0.0 0 0 Magnesium ppm ASTM D5185m 0.0 <1 0 Calcium ppm ASTM D5185m 0.0 <1 0 Calcium ppm ASTM D5185m 0.0 <1 0 Calcium ppm ASTM D5185m 1 6 0 Clacium ppm ASTM D5185m 3 4 0 Zinc ppm ASTM D5185m 240 308 206 Sulfur ppm ASTM D5185m >25 <1 0 Sodium ppm ASTM D5185m >25 <1 0 Sodium ppm ASTM D5185m >20	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0.0 0 Manganese ppm ASTM D5185m 0.0 <1	Boron	ppm	ASTM D5185m		0	<1	
Manganese ppm ASTM D5185m 0 0 Magnesium ppm ASTM D5185m 0.0 <1 0 Calcium ppm ASTM D5185m 1 6 0 Calcium ppm ASTM D5185m 1 6 0 Phosphorus ppm ASTM D5185m 3 4 0 Zinc ppm ASTM D5185m 0.1 4 33 Sulfur ppm ASTM D5185m 240 308 206 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1 0 Sodium ppm ASTM D5185m >20 61 40 Potassium ppm ASTM D5185m >20 61 40 FLUID DEGRADATION method limit/base current histo	Barium	ppm	ASTM D5185m	745	569	394	
Magnesium ppm ASTM D5185m 0.0 <1	Molybdenum	ppm	ASTM D5185m	0.0	0	0	
Calcium ppm ASTM D5185m 1 6 0 Phosphorus ppm ASTM D5185m 3 4 0 Zinc ppm ASTM D5185m 0.1 4 33 Sulfur ppm ASTM D5185m 240 308 206 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Manganese	ppm	ASTM D5185m		0	0	
Phosphorus ppm ASTM D5185m 3 4 0 Zinc ppm ASTM D5185m 0.1 4 33 Sulfur ppm ASTM D5185m 240 308 206 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 <1	Magnesium	ppm	ASTM D5185m	0.0	<1	0	
ZincppmASTM D5185m0.1433SulfurppmASTM D5185m240308206CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25<10SodiumppmASTM D5185m>25<10PotassiumppmASTM D5185m>206140FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Calcium	ppm	ASTM D5185m	1	6	0	
SulfurppmASTM D5185m240308206CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>25<10SodiumppmASTM D5185m>25<10PotassiumppmASTM D5185m>206140FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Phosphorus	ppm	ASTM D5185m	3	4	0	
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<>25<10SodiumppmASTM D5185m168222PotassiumppmASTM D5185m>206140FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	Zinc	ppm	ASTM D5185m	0.1	4	33	
Silicon ppm ASTM D5185m >25 <1	Sulfur	ppm	ASTM D5185m	240	308	206	
SodiumppmASTM D5185m168222PotassiumppmASTM D5185m>206140FLUID DEGRADATIONmethodlimit/basecurrenthistory1history2	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 61 40 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>25	<1	0	
FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		168	222	
	Potassium	ppm	ASTM D5185m	>20	61	40	
Acid Number (AN) mg KOH/g ASTM D8045 .06 0.076 0.299	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	.06	0.076	0.299	



OIL ANALYSIS REPORT





Yellow MetalsoPrecipitatesoSiltsoDebrissoSand/DirtsoAppearancesoOdorsoEmulsified Waterso	calar *Vis calar *Vis calar *Vis calar *Vis calar *Vis calar *Vis calar *Vis	sual M sual M sual M sual M	NONE NONE NONE NONE	NONE NONE NONE NONE	NONE NONE NONE NONE	
Yellow MetalsoPrecipitatesoSiltsoDebrissoSand/DirtsoAppearancesoOdorsoEmulsified Waterso	calar *Vis calar *Vis calar *Vis calar *Vis calar *Vis calar *Vis calar *Vis	sual M sual M sual M sual M	NONE NONE NONE	NONE NONE	NONE NONE	
PrecipitatescSiltscDebrisscSand/DirtscAppearancescOdorscEmulsified Watersc	calar *Vis calar *Vis calar *Vis calar *Vis calar *Vis	sual M sual M sual M	NONE	NONE	NONE	
SiltsoDebrissoSand/DirtsoAppearancesoOdorsoEmulsified Waterso	calar *Vis calar *Vis calar *Vis calar *Vis calar *Vis	sual N sual N	NONE			
DebrissoSand/DirtsoAppearancesoOdorsoEmulsified Waterso	calar *Vis calar *Vis calar *Vis	sual N		NONE	NONE	
Sand/DirtsoAppearancesoOdorsoEmulsified Waterso	calar *Vis calar *Vis		NONE	NONE		
AppearancesoOdorsoEmulsified Waterso	calar *Vis	sual N		NONE	VLITE	
Odor so Emulsified Water so			NONE	NONE	NONE	
Emulsified Water so			NORML	NORML	NORML	
	calar *Vis	sual 1	NORML	NORML	NORML	
Free Water so	calar *Vis	sual >	>0.1	NEG	NEG	
	calar *Vis	sual		NEG	NEG	
FLUID PROPERTIES	S m	ethod	limit/base	current	history1	history2
Visc @ 40°C c	St AST	M D445 3	38.1	44.5	40.8	
SAMPLE IMAGES	m	ethod	limit/base	current	history1	history2
Color				(15 5 A)		no image
00101						nomaye
					()	
Bottom						no image
Dottom						no image
				A-A		
GRAPHS						
Ferrous Alloys						
o - chromium						
6 - nickel						
4						
2						
0			54			
Sep7/21			Mar5/24			
			2			
Non-ferrous Metals						
copper						
6						
4						
2						
			milli			
Sep7/21			Mar5/24			
			M			
Viscosity @ 40°C			0.50	Acid Number		
Abaamal			(B)HC 2.00	Severe		
45 - 0			2.00 2.00	1		
40 Base			j≞ 1.50	Abnormal		
			1.00	1		
-			- 0.50	Base		
-			0.00-	7/21-		20
Sep			Marc	Sep		Marc D.4
40 Base			(b,2.30 HOJ 2.00 June au Mat2/24 Wat2/24 Wat2/24 Wat2/24	Abnormal Abnormal Basse 1171/deg		

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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: UCAIRCAR [WUSCAR] 06142347 (Generated: 04/12/2024 08:14:13) Rev: 1

Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package

Contact/Location: ELVIN DIAZ - UCAIRCAR

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