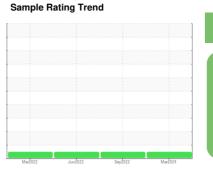


OIL ANALYSIS REPORT

ALL ADVANTAGE VFF1156U12228 - MENNIE MACHINE

Component Compressor





Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

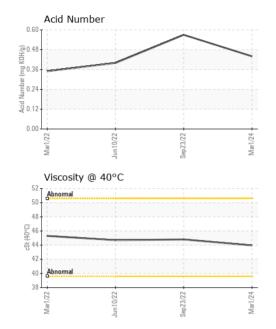
Fluid Condition

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

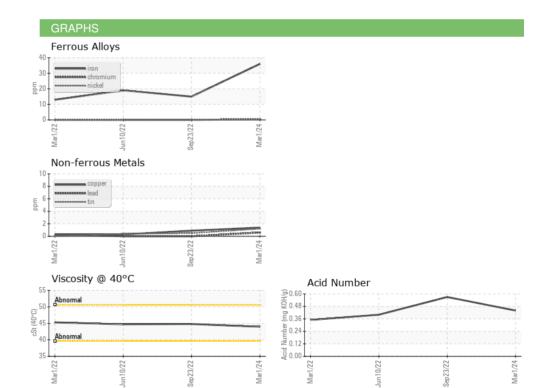
Sample Number Client Info UCH06144400 UCH05660896 UCH0558513							
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 71329 66603 64321 Oil Age hrs Client Info 8000 8000 4000 Oil Changed Client Info Changed Changed Not Changd Sample Status NORMAL NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 36 15 19 Chromium ppm ASTM D5185m >10 <1	Sample Number		Client Info		UCH06144400	UCH05660896	UCH05585139
Oil Age	Sample Date		Client Info		01 Mar 2024	23 Sep 2022	10 Jun 2022
Oil Changed Sample Status Client Info Changed NORMAL Changed NORMAL Not Changed NoRMAN Not Changed NoRMAN Not Changed NoR	Machine Age	hrs	Client Info		71329	66603	64321
NORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2	Oil Age	hrs	Client Info		8000	8000	4000
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 36 15 19 Chromium ppm ASTM D5185m >10 <1	Oil Changed		Client Info		Changed	Changed	Not Changd
Water WC Method >0.1 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 36 15 19 Chromium ppm ASTM D5185m >10 <1 0 0 Nickel ppm ASTM D5185m <1 <1 0 0 Silver ppm ASTM D5185m <25 8 10 6 Aluminum ppm ASTM D5185m >25 8 10 6 Lead ppm ASTM D5185m >25 8 10 6 Lead ppm ASTM D5185m >50 1 <1 <1 <1 Antimony ppm ASTM D5185m >50 1 <1 <1 <1 Vanadium ppm ASTM D5185m <1 <1 <1 0 Cadmium ppm ASTM D5185m <1 <1<	Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >50 36 15 19 Chromium ppm ASTM D5185m >10 <1 0 0 Nickel ppm ASTM D5185m >10 <1 0 0 Silver ppm ASTM D5185m >25 8 10 6 Aluminum ppm ASTM D5185m >25 8 10 6 Lead ppm ASTM D5185m >25 4 0 0 Copper ppm ASTM D5185m >15 1 <1 <1 <1 Tin ppm ASTM D5185m >15 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	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium ppm ASTM D5185m >10 <1 0 0 Nickel ppm ASTM D5185m <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	36	15	19
Titanium ppm ASTM D5185m <1 <1 0 Silver ppm ASTM D5185m 0 <1	Chromium	ppm	ASTM D5185m	>10	<1	0	0
Silver ppm ASTM D5185m 0 <1 0 Aluminum ppm ASTM D5185m >25 8 10 6 Lead ppm ASTM D5185m >25 <1 0 0 Copper ppm ASTM D5185m >50 1 <1 <1 <1 Tin ppm ASTM D5185m >15 1 <1 <1 <1 <1 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m <1 <1 0 0 Cadmium ppm ASTM D5185m <1 <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 2 Barium ppm ASTM D5185m <1 0 0 0 Magnesium ppm ASTM D5185m	Nickel	ppm	ASTM D5185m		<1	0	0
Aluminum ppm ASTM D5185m >25 8 10 6 Lead ppm ASTM D5185m >25 <1	Titanium	ppm	ASTM D5185m		<1	<1	0
Lead ppm ASTM D5185m >25 <1 0 0 Copper ppm ASTM D5185m >50 1 <1 <1 Tin ppm ASTM D5185m >15 1 <1 <1 Antimony ppm ASTM D5185m Vanadium ppm ASTM D5185m <1 <1 0 Cadmium ppm ASTM D5185m <1 0 0 Cadmium ppm ASTM D5185m 0 0 3 Barium ppm ASTM D5185m 0 0 2 Molybdenum ppm ASTM D5185m <1 0 0 Magnesium ppm ASTM D5185m <1 1 <1 <1 Magnesium ppm ASTM D5185m 3 0 0 0 Phosphorus ppm ASTM D5185m 304 222 246 Zinc ppm ASTM D5185m 702	Silver	ppm	ASTM D5185m		0	<1	0
Copper ppm ASTM D5185m >50 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 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0	Aluminum	ppm	ASTM D5185m	>25	8	10	6
Tin ppm ASTM D5185m >15 1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0	Lead	ppm	ASTM D5185m	>25	<1	0	0
Antimony ppm ASTM D5185m 0 0 ADITIVES method limit/base current history1 history2 Mistory2 Boron ppm ASTM D5185m Q 0 0 2 2 1 1 1 1 2 1 1 2 </td <td>Copper</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>50</td> <th>1</th> <td><1</td> <td><1</td>	Copper	ppm	ASTM D5185m	>50	1	<1	<1
Vanadium ppm ASTM D5185m <1 <1 0 Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 3 Barium ppm ASTM D5185m 0 0 2 Molybdenum ppm ASTM D5185m <1 0 0 Magnese ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m 3 0 0 0 Calcium ppm ASTM D5185m 304 222 246 Zinc ppm ASTM D5185m 55 19 13 Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 2 <td>Tin</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>15</td> <th>1</th> <td><1</td> <td><1</td>	Tin	ppm	ASTM D5185m	>15	1	<1	<1
Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 3 Barium ppm ASTM D5185m 0 0 2 Molybdenum ppm ASTM D5185m <1	Antimony	ppm	ASTM D5185m				
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 3 Barium ppm ASTM D5185m 0 0 2 Molybdenum ppm ASTM D5185m <1	Vanadium	ppm	ASTM D5185m		<1	<1	0
Boron ppm ASTM D5185m 0 0 3 Barium ppm ASTM D5185m 0 0 2 Molybdenum ppm ASTM D5185m <1 0 0 Manganese ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m <1 0 0 0 Calcium ppm ASTM D5185m 3 0 0 0 Phosphorus ppm ASTM D5185m 304 222 246 Zinc ppm ASTM D5185m 55 19 13 Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1 <1 Sodium ppm ASTM D5185m >20 2 0 <1 <1 Potassium ppm	Cadmium	ppm	ASTM D5185m		<1	0	0
Barium ppm ASTM D5185m 0 0 2 Molybdenum ppm ASTM D5185m <1 0 0 Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m <1 0 0 Calcium ppm ASTM D5185m 3 0 0 Phosphorus ppm ASTM D5185m 304 222 246 Zinc ppm ASTM D5185m 55 19 13 Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1 <1 Sodium ppm ASTM D5185m >20 2 0 <1 FLUID DEGRADATION method limit/base current history1 history2	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1 0 0 Manganese ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m <1 0 0 0 Calcium ppm ASTM D5185m 3 0 0 0 Phosphorus ppm ASTM D5185m 304 222 246 Zinc ppm ASTM D5185m 55 19 13 Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1 <1 Sodium ppm ASTM D5185m >20 2 0 <1 <1 FLUID DEGRADATION method limit/base current history1 history2	Boron	ppm	ASTM D5185m		0	0	3
Manganese ppm ASTM D5185m <1 <1 <1 Magnesium ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	0	2
Magnesium ppm ASTM D5185m <1 0 0 Calcium ppm ASTM D5185m 3 0 0 Phosphorus ppm ASTM D5185m 304 222 246 Zinc ppm ASTM D5185m 55 19 13 Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1 <1 Sodium ppm ASTM D5185m 20 2 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Molybdenum	ppm	ASTM D5185m		<1	0	0
Calcium ppm ASTM D5185m 3 0 0 Phosphorus ppm ASTM D5185m 304 222 246 Zinc ppm ASTM D5185m 55 19 13 Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1	Manganese	ppm	ASTM D5185m		<1	<1	<1
Phosphorus ppm ASTM D5185m 304 222 246 Zinc ppm ASTM D5185m 55 19 13 Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1 <1 Sodium ppm ASTM D5185m 0 <1 <1 Potassium ppm ASTM D5185m >20 2 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Magnesium	ppm	ASTM D5185m		<1	0	0
Zinc ppm ASTM D5185m 55 19 13 Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1 <1 Sodium ppm ASTM D5185m 0 <1 <1 Potassium ppm ASTM D5185m >20 2 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Calcium	ppm	ASTM D5185m		3	0	0
Sulfur ppm ASTM D5185m 702 240 379 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1	Phosphorus	ppm	ASTM D5185m		304	222	246
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 <1	Zinc	ppm	ASTM D5185m		55	19	13
Silicon ppm ASTM D5185m >25 1 <1 <1 Sodium ppm ASTM D5185m 0 <1 <1 Potassium ppm ASTM D5185m >20 2 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Sulfur	ppm	ASTM D5185m		702	240	379
Sodium ppm ASTM D5185m 0 <1	CONTAMINANTS	3	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 2 0 <1 FLUID DEGRADATION method limit/base current history1 history2	Silicon	ppm	ASTM D5185m	>25	1	<1	<1
FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		0	<1	<1
·	Potassium	ppm	ASTM D5185m	>20	2	0	<1
Acid Number (AN) mg KOH/g ASTM D8045 0.44 0.57 0.40	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.44	0.57	0.40



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		43.96	44.8	44.7
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
Bottom				. 8		







Certificate 12367

Laboratory

Sample No.

Test Package : IND 2

: UCH06144400 Lab Number : 06144400 Unique Number : 10969208

Tested

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Apr 2024 : 16 Apr 2024 Diagnosed

: 16 Apr 2024 - Jonathan Hester

204 38TH ST MOLINE, IL

US 61265 Contact: KEVIN DESPOT kevind@a-l-lequipment.com

A-L-L EQUIPMENT INC

T: (815)877-7000

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)

F: (309)762-9950