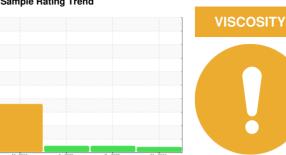


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



# ULTRA COOLANT FG VL2279U17017 - FMC

Component Compressor

#### Recommendation

Oil and filter change at the time of sampling has been noted. 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.

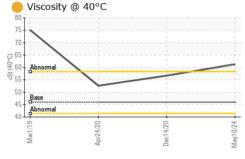
#### Fluid Condition

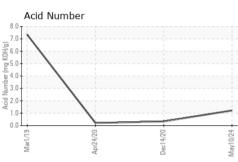
The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Sample Number			mazor	7912020	5002525	,	
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age         hrs         Client Info         38116         21435         18694           Oil Age         hrs         Client Info         0         0         0         0           Oil Changed         hrs         Client Info         Changed         Not Changd         Not Changd           Sample Status         Client Info         Changed         Not Changd         Not Changd         Not Changd           CATTENTION         NEG         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         5         1         <1	Sample Number		Client Info		UCH06196796	UCH05142669	UCH04971150
Oil Age         hrs         Client Info         0         0         0         0           Oil Changed Sample Status         Client Info         Changed ATTENTION         Not Changed Not Changed         Not Changed Normal         Not Changed Normal         Not Changed Normal         Not Changed Normal         Not Changed Normal         Not Changed Normal         Normal         N	Sample Date		Client Info		10 May 2024	14 Dec 2020	24 Apr 2020
Oil Changed Sample Status         Client Info         Changed ATTENTION         Not Changed NORMAL         Not Changed Normal	Machine Age	hrs	Client Info		38116	21435	18694
ATTENTION   NORMAL   NORMAL	Oil Age	hrs	Client Info		0	0	0
CONTAMINATION         method         limit/base         current         history1         history2           Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history3           Iron         ppm         ASTM D5185m         >50         5         1         <1	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Water         WC Method         >0.1         NEG         NEG         NEG           WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         5         1         <1           Chromium         ppm         ASTM D5185m         >10         <1         0         0           Nickel         ppm         ASTM D5185m         0         0         0         <1           Titanium         ppm         ASTM D5185m         <1         0         0         0           Silver         ppm         ASTM D5185m         >25         2         0         <1           Lead         ppm         ASTM D5185m         >50         3         1         <1           Copper         ppm         ASTM D5185m         >50         3         1         <1           Tin         ppm         ASTM D5185m         >50         3         1         <1           Antimory         ppm         ASTM D5185m         0         0         0         0           Cadrium         ppm         ASTM D5185m         0         0         0         0	Sample Status				ATTENTION		NORMAL
WEAR METALS         method         limit/base         current         history1         history2           Iron         ppm         ASTM D5185m         >50         5         1         <1           Chromium         ppm         ASTM D5185m         >10         <1         0         0           Nickel         ppm         ASTM D5185m         0         0         <1         0           Silver         ppm         ASTM D5185m         >25         2         0         <1           Aluminum         ppm         ASTM D5185m         >25         2         0         <1           Lead         ppm         ASTM D5185m         >50         3         1         <1           Copper         ppm         ASTM D5185m         >50         3         1         <1           Tin         ppm         ASTM D5185m         >15         <1         0         0           Antimony         ppm         ASTM D5185m         0         0         0         0           Vanadium         ppm         ASTM D5185m         0         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0	CONTAMINATION		method	limit/base	current	history1	history2
Iron	Water		WC Method	>0.1	NEG	NEG	NEG
Chromium         ppm         ASTM D5185m         >10         <1	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185m	>50	5	1	<1
Titanium	Chromium	ppm	ASTM D5185m	>10	<1	0	0
Silver         ppm         ASTM D5185m         0         0         0           Aluminum         ppm         ASTM D5185m         >25         2         0         <1           Lead         ppm         ASTM D5185m         >25         2         0         <1           Copper         ppm         ASTM D5185m         >50         3         1         <1           Tin         ppm         ASTM D5185m         >15         <1         0         0           Antimony         ppm         ASTM D5185m         0         0         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           Barium         ppm         ASTM D5185m         6         169         31           Molybdenum         ppm         ASTM D5185m         <1         <1         <1         <1         <1         <1	Nickel	ppm	ASTM D5185m		0	0	<1
Aluminum         ppm         ASTM D5185m         >25         2         0         <1           Lead         ppm         ASTM D5185m         >25         <1	Titanium	ppm	ASTM D5185m		<1	0	0
Lead         ppm         ASTM D5185m         >25         <1         0         0           Copper         ppm         ASTM D5185m         >50         3         1         <1           Tin         ppm         ASTM D5185m         >15         <1         0         0           Antimony         ppm         ASTM D5185m          0         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           Barium         ppm         ASTM D5185m         6         169         31         1         41         0         0           Malagnesium         ppm         ASTM D5185m         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1 <td>Silver</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>0</th> <td>0</td> <td>0</td>	Silver	ppm	ASTM D5185m		0	0	0
Copper         ppm         ASTM D5185m         >50         3         1         <1           Tin         ppm         ASTM D5185m         >15         <1	Aluminum	ppm	ASTM D5185m	>25	2	0	<1
Tin	Lead	ppm	ASTM D5185m	>25	<1	0	0
Antimony         ppm         ASTM D5185m          0         0           Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         6         169         31           Molybdenum         ppm         ASTM D5185m         <1	Copper	ppm	ASTM D5185m	>50	3	1	<1
Vanadium         ppm         ASTM D5185m         0         0         0           Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0         0           Barium         ppm         ASTM D5185m         6         169         31           Molybdenum         ppm         ASTM D5185m         <1         0         0           Manganese         ppm         ASTM D5185m         0         0         0         0           Magnesium         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	Tin	ppm	ASTM D5185m	>15	<1	0	0
Cadmium         ppm         ASTM D5185m         0         0         0           ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         6         169         31           Molybdenum         ppm         ASTM D5185m         <1         0         0           Manganese         ppm         ASTM D5185m         <1         <1         <1         <1           Calcium         ppm         ASTM D5185m         48         51         74           Phosphorus         ppm         ASTM D5185m         381         187         309           Zinc         ppm         ASTM D5185m         14         4         2           Sulfur         ppm         ASTM D5185m         722         375         471           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >20         5         2         0           FLUID DEGRADATION         method         limit/base         current<	Antimony	ppm	ASTM D5185m			0	0
ADDITIVES         method         limit/base         current         history1         history2           Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         6         169         31           Molybdenum         ppm         ASTM D5185m         <1	Vanadium	ppm	ASTM D5185m		0	0	0
Boron         ppm         ASTM D5185m         0         0         0           Barium         ppm         ASTM D5185m         6         169         31           Molybdenum         ppm         ASTM D5185m         <1         0         0           Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         <1         <1         <1           Calcium         ppm         ASTM D5185m         48         51         74           Phosphorus         ppm         ASTM D5185m         381         187         309           Zinc         ppm         ASTM D5185m         14         4         2           Sulfur         ppm         ASTM D5185m         722         375         471           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         1         <1         1           Sodium         ppm         ASTM D5185m         >20         5         2         0           FLUID DEGRADATION         method         limit/base         current         hist	Cadmium	ppm	ASTM D5185m		0	0	0
Barium         ppm         ASTM D5185m         6         169         31           Molybdenum         ppm         ASTM D5185m         <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185m         <1         0         0           Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         <1         <1         <1           Calcium         ppm         ASTM D5185m         48         51         74           Phosphorus         ppm         ASTM D5185m         381         187         309           Zinc         ppm         ASTM D5185m         14         4         2           Sulfur         ppm         ASTM D5185m         722         375         471           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         1         <1         1           Sodium         ppm         ASTM D5185m         >20         5         2         0           FLUID DEGRADATION         method         limit/base         current         history1         history2	Boron	ppm	ASTM D5185m		0	0	0
Manganese         ppm         ASTM D5185m         0         0         0           Magnesium         ppm         ASTM D5185m         <1	Barium	ppm	ASTM D5185m		6	169	31
Magnesium         ppm         ASTM D5185m         <1         <1         <1           Calcium         ppm         ASTM D5185m         48         51         74           Phosphorus         ppm         ASTM D5185m         381         187         309           Zinc         ppm         ASTM D5185m         14         4         2           Sulfur         ppm         ASTM D5185m         722         375         471           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         1         <1         1           Sodium         ppm         ASTM D5185m         >20         5         2         0           FLUID DEGRADATION         method         limit/base         current         history1         history2	Molybdenum	ppm	ASTM D5185m		<1	0	0
Calcium         ppm         ASTM D5185m         48         51         74           Phosphorus         ppm         ASTM D5185m         381         187         309           Zinc         ppm         ASTM D5185m         14         4         2           Sulfur         ppm         ASTM D5185m         722         375         471           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         1         <1	Manganese	ppm	ASTM D5185m		0	0	0
Phosphorus         ppm         ASTM D5185m         381         187         309           Zinc         ppm         ASTM D5185m         14         4         2           Sulfur         ppm         ASTM D5185m         722         375         471           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         1         <1         1           Sodium         ppm         ASTM D5185m         33         18         <1           Potassium         ppm         ASTM D5185m         >20         5         2         0           FLUID DEGRADATION         method         limit/base         current         history1         history2	Magnesium	ppm	ASTM D5185m		<1	<1	<1
Zinc         ppm         ASTM D5185m         14         4         2           Sulfur         ppm         ASTM D5185m         722         375         471           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         1         <1         1           Sodium         ppm         ASTM D5185m         33         18         <1           Potassium         ppm         ASTM D5185m         >20         5         2         0           FLUID DEGRADATION         method         limit/base         current         history1         history2	Calcium	ppm	ASTM D5185m		48	51	74
Sulfur         ppm         ASTM D5185m         722         375         471           CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         1         <1	Phosphorus	ppm	ASTM D5185m		381	187	309
CONTAMINANTS         method         limit/base         current         history1         history2           Silicon         ppm         ASTM D5185m         >25         1         <1	Zinc	ppm	ASTM D5185m		14	4	2
Silicon         ppm         ASTM D5185m         >25         1         <1         1           Sodium         ppm         ASTM D5185m         33         18         <1           Potassium         ppm         ASTM D5185m         >20         5         2         0           FLUID DEGRADATION         method         limit/base         current         history1         history2	Sulfur	ppm	ASTM D5185m		722	375	471
Sodium         ppm         ASTM D5185m         33         18         <1	CONTAMINANTS	8	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <b>5</b> 2 0  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		33	18	<1
	Potassium	ppm	ASTM D5185m	>20	5	2	0
Acid Number (AN)         mg KOH/g         ASTM D8045         1.22         0.333         0.207	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.22	0.333	0.207



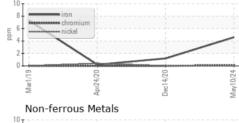
# **OIL ANALYSIS REPORT**

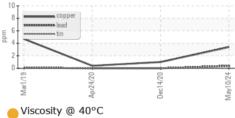


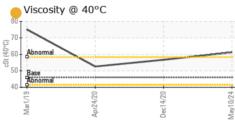


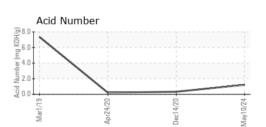
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46.0	<b>61.2</b>	56.7	52.6
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						
Bottom						















Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : UCH06196796 Lab Number : 06196796

Unique Number : 11058919

Received : 31 May 2024 **Tested** : 04 Jun 2024

Diagnosed : 04 Jun 2024 - Don Baldridge

Test Package : IND 2 Certificate 12367 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)

**A-L-L EQUIPMENT INC** 

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kevind@a-l-lequipment.com T: (815)877-7000

F: (309)762-9950