

## **OIL ANALYSIS REPORT**

# Area ULTRA FG **INGERSOLL RAND VK4570U17199 - US DURUM** Component Compressor

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

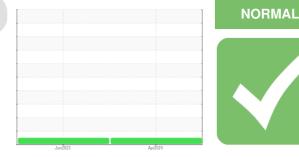
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the component.

### Fluid Condition

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



Sample Rating Trend

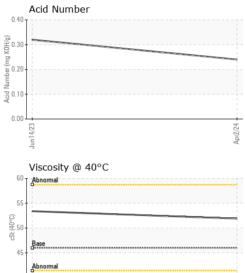


SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		UCH06154527	UCH05889201	
Sample Date		Client Info		02 Apr 2024	14 Jun 2023	
Machine Age	hrs	Client Info		23047	18196	
Oil Age	hrs	Client Info		1301	3617	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINATIO	N	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	0	<1	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>25	1	0	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		87	967	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		<1	<1	
Calcium	ppm	ASTM D5185m		66	3	
Phosphorus	ppm	ASTM D5185m		338	2	
Zinc	ppm	ASTM D5185m		0	3	
Sulfur	ppm	ASTM D5185m		573	364	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	
Sodium	ppm	ASTM D5185m		16	24	
Potassium	ppm	ASTM D5185m	>20	3	4	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.24	0.32	



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	VISUAL		method	limit/base	current		history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Apr2/24	Appearance	scalar	*Visual	NORML	NORML	NORML	
Aş	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	46.0	51.9	53.4	
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Apr2/24	Color						no image
	Bottom						no image
	8 6 4 2						
	Non-ferrous Meta	als		Apr2/24			
	Non-ferrous Meta			Apr2/24 40-012/24 40000000000000000000000000000000000	Acid Number		
	Non-ferrous Meta Non-ferrous Meta Bad und Und Copper lead tin E224 Lun E224 Lun			Apr2/24	Acid Number		
	Non-ferrous Meta Non-ferrous Meta lad bad viscosity @ 40°C			Apr2/24	Acid Number		
	Non-ferrous Meta Non-ferrous Meta lad bad viscosity @ 40°C			Apr2/24	Acid Number		
	Non-ferrous Meta Non-ferrous Meta lad band copper lad tin viscosity @ 40°C			(b),0.40 (b),0.30. (b),0.10 (c),0.0 (c	Acid Number		
	Non-ferrous Meta Non-ferrous Meta lead und viscosity @ 40°C			04.0 0 0 (Mumber 0.20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Acid Number		
	Non-ferrous Meta Non-ferrous Meta lead und Viscosity @ 40°C			0.0.0 401/2/24 401/2/24 401/2/24 0.0.0 0.00 0.00			
	Non-ferrous Meta Non-ferrous Meta lead und viscosity @ 40°C			04.0 0 0 (Mumber 0.20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Acid Number		
Laboratory Sample No. Lab Number Unique Number Unique Number Test Package discuss this sample report Denotes test methods that	Non-ferrous Meta Non-ferrous Meta viscosity @ 40°C	01 Madisc Rece Teste Diagr	ived : 19 ed : 22 nosed : 23 800-237-1369	, NC 27513 Apr 2024 Apr 2024 - Sea	JOHI an Felton	ontact: RACHEL rvonh	RGET STREE NT LOUIS, M US 6313

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