

# **OIL ANALYSIS REPORT**

Sample Rating Trend

WATER

Area **NOT** GIVEN Machine Id **HERTZ VD027014** Component

Component Compressor

#### DIAGNOSIS

#### Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

## Contamination

Appearance is hazy. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		UHK06208291	UHK05832097	
Sample Date		Client Info		11 Jun 2024	15 Mar 2023	
Machine Age	hrs	Client Info		0	500	
Oil Age	hrs	Client Info		0	500	
Oil Changed		Client Info		N/A	Not Changd	
Sample Status				ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	5	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	0	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	3	2	
Tin	ppm	ASTM D5185m	>15	12	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 0	history1 0	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 0 0	history1 0 0	history2 
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 0 0 0	history1 0 0 0	history2  
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current O O O O	history1 0 0 0 0	history2   
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base	current 0 0 0 0 0 0	history1 0 0 0 0 <1	history2    
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current           0           0           0           0           0           0           0           2	history1 0 0 0 0 <1 0	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D5185m	limit/base	Current 0 0 0 0 0 0 2 409	history1 0 0 0 0 <1 0 53	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 0 0 0 2 409 0	history1 0 0 0 0 <1 0 53 6	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 0 0 0 2 409 0 1011	history1 0 0 0 <1 0 53 6 548	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	Current 0 0 0 0 0 0 2 409 0 1011 2 0 1011	history1         0         0         0         0               0            53         6         548	history2       history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm 1 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 3 ppm 3 ppm 4 ppm 3 ppm 3	method           ASTM D5185m	limit/base	current           0           0           0           0           0           0           0           0           0           0           0           0           1011           current           3	history1         0         0         0         0            0            53         6         548         history1         2	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm 1 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 4 ppm 4 ppm 4 ppm 4 ppm 4	method           ASTM D5185m	limit/base limit/base >25	current           0           0           0           0           0           0           0           0           0           0           0           0           1011           current           3           0	history1         0         0         0         0            0            53         6         548         history1         2         0	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Chosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm 1 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 3 ppm 4 ppm 4 ppm 4 ppm 4 ppm 1	method           ASTM D5185m	limit/base	current         0         0         0         0         0         2         409         0         1011         current         3         0         <1	history1         0         0         0         0            0            0         53         6         548         history1         2         0            2         0         <1	history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm 1 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 3 ppm 4 ppm 4 ppm 4 ppm 2 ppm 2 ppm 3 ppm 4 ppm 2 ppm 3 ppm 4 ppm 4	method           ASTM D5185m	limit/base limit/base >25 >20 >0.1	Current 0 0 0 0 2 409 0 1011 Current 3 0 <1 0.227	history1         0         0         0         0         <1         0         53         6         548         history1         2         0         <1         0         <1         0         <1         <0         <1         <0.114	history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm 1 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 3 ppm 4 ppm 2 ppm 2 ppm 4 ppm 4 ppm 2 ppm 4 ppm 4	method           ASTM D5185m           ASTM D6304	limit/base	current         0         0         0         0         0         2         409         0         1011         current         3         0         <1         0.227         2270	history1         0         0         0         0         <1         0         53         6         548         history1         2         0         <1         <1         <1         <1         <1         <1         <1         <114         <1140	history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID DEGRADA	ppm 1 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm 3 ppm 2 ppm 2 ppm 3 ppm 3 ppm 4 ppm 2 ppm 3 ppm 4 ppm 4	method           ASTM D5185m           ASTM D5304           ASTM D6304           ASTM D6304	limit/base >25 >20 >0.1 >1000 limit/base	current         0         0         0         0         0         2         409         0         1011         current         3         0         <1         0.227         2270	history1         0         0         0            0            53         6         548         history1         2         0	history2 history2 history2



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	VISUAL		method	limit/base	e current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	MODER	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	MODER	NONE	
	Debris	scalar	*Visual	NONE	NONE	MODER	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
/24	Appearance	scalar	*Visual	NORML	HAZY	NORML	
Junl	Odor	scalar	*Visual	NORMI	NORMI	NORMI	
-	Emulsified Water	scalar	*Visual	>0.1	0.2%	0.2%	
	Free Water	scalar	*Visual	20.1	NEG	0.2 /8	
		Scalar	VISUAI		NEG	1.0	
	FLUID PROPERT	IES	method	limit/base	e current	history1	history2
	Visc @ 40°C	cSt	ASTM D445		49.1	46.5	
	SAMPLE IMAGES	S	method	limit/base	e current	history1	history2
Jun11/24	Color						no image
	Bottom						no image
	GRAPHS						
1	Ferrous Alloys						
	<sup>10</sup> T						
	8 - iron chromium						
5	E 6 - nickel						
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	55 T			-0.20	Acid Number		
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	40 - Abnormal			Num N	.05 -		
	35			Acid	00		
	5/23			1/24	5/23		104
	Marl			Jun1	Marl		
oratory	: WearCheck USA - 50	1 Madisc	on Ave., Cary	, NC 27513	3	E & S C	OMPRESSO
Sample No.	: UHK06208291	Rece	ived : 12	2 Jun 2024			
Number	: 06208291	Teste	ed : 14	Jun 2024	na Dalahistan	GRE	ENBRIER, AF
Je Number	: 110/5/52 : IND 2 (Additional To-		1 <b>0sea</b> : 14	Jun 2024 - Do	on Baldridge		
mole report	. IND 2 ( AUUIIIONAI Tes	ico at 1 (	200-227 120	a			NIN GOODIVIAI
methods that	are outside of the ISO 1	7025 cm	ne of accred	j. litation	JUNATE		n∟000n.00l\ T

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

Contact/Location: JONATHAN GOODMAN - UCEASGRE

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