

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**VIS DEBRIS** 



### Area KANSAS/44/EG - E 20.210L [KANSAS^44^E Hydraulic System

CAT HYDO (--- GAL)

## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

Moderate concentration of visible dirt/debris present in the oil.

#### Fluid Condition

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

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- EXCAVA ^EG - EXCAVA	-						
SAMPLE INFORM		method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0918405			
Sample Date		Client Info		01 Apr 2024			
Machine Age	hrs	Client Info		9			
Dil Age	hrs	Client Info		9			
Dil Changed		Client Info		Not Changd			
Sample Status				ABNORMAL			
·			11 11 11				
CONTAMINATION	N	method	limit/base	current	history1	history2	
Nater		WC Method	>0.1	NEG			
WEAR METALS		method	limit/base	current	history1	history2	
ron	ppm	ASTM D5185m	>20	<1			
Chromium	ppm	ASTM D5185m	>10	0			
lickel	ppm	ASTM D5185m	>10	0			
Fitanium	ppm	ASTM D5185m		0			
Silver	ppm	ASTM D5185m		0			
Aluminum	ppm	ASTM D5185m	>10	0			
ead	ppm	ASTM D5185m	>10	0			
Copper	ppm	ASTM D5185m	>75	1			
<b>Fin</b>	ppm	ASTM D5185m	>10	<1			
/anadium	ppm	ASTM D5185m		<1			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		0			
Barium	ppm	ASTM D5185m		0			
Nolybdenum	ppm	ASTM D5185m		2			
Nanganese	ppm	ASTM D5185m		<1			
<i>I</i> lagnesium	ppm	ASTM D5185m		1			
Calcium	ppm	ASTM D5185m		166			
Phosphorus	ppm	ASTM D5185m	1100	704			
Zinc	ppm	ASTM D5185m	1210	882			
Sulfur	ppm	ASTM D5185m		2104			
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	<1			
Sodium	ppm	ASTM D5185m		2			
Potassium	ppm	ASTM D5185m	>20	0			
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	



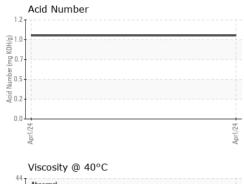
# **OIL ANALYSIS REPORT**

method

limit/base

current

VISUAL





White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water	scalar scalar scalar scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE NONE NORE	NONE NONE NONE NONE MODER NONE	  	 	
Precipitate Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE	NONE NONE MODER			
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE	NONE			
Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar	*Visual *Visual *Visual	NONE NONE				
Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar	*Visual *Visual	NONE				
Appearance Odor Emulsified Water	scalar scalar	*Visual		NONE			
Odor Emulsified Water	scalar			NORML			
Emulsified Water			NORML	NORML			
	Scalai	*Visual	>0.1	NEG			
	scalar	*Visual	20.1	NEG			
FLUID PROPER		method	limit/base	current	history1	history2	
		ASTM D445		40.5			
SAMPLE IMAGE	S	method	limit/base	current	history1	history2	
Color					no image	no image	
Bottom				a.	no image	no image	
8 6 4 2 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			April/24				
10 8 6 4 2			Apr1/24				
				Acid Number			
Abhormai			(B)				
			ອຼົງ1.	0			
0 1 38 - Base #			.0 <u>.</u>	7			
			40.	2			
54- <b>G</b>			Acid 0				
			1/24	1/24			
	01 Madiso	n Ave., Cary			DOD CONSTRU		
: CONST			Apr 2024 Apr 2024 Apr 2024 - Dor	n Baldridge	Contact:	3219 WEST MAY S WICHITA, K US 6721 Contact: BILL ORCUT	
	Color Bottom GRAPHS Ferrous Alloys Ferrous Alloys Non-ferrous Meta Non-ferrous Meta Color Viscosity @ 40°C Color C	SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys Ferrous Alloys Non-ferrous Metals Viscosity @ 40°C 42 Viscosity @ 40°C 42 Viscosity @ 40°C 44 42 42 44 44 44 44 44 44 44	SAMPLE IMAGES method Color Bottom GRAPHS Ferrous Alloys Terrous Metals Non-ferrous Metals Viscosity @ 40°C Viscosity @ 40°C Viscosity @ 40°C	SAMPLE IMAGES method imit/base Color Bottom GRAPHS Ferrous Alloys 	SAMPLE IMAGES method imit/base current   Color Imit/base current   Bottom Imit/base Imit/base Imit/base   GRAPHS Imit/base Imit/base Imit/base Imit/base   GRAPHS Imit/base Imit/base Imit/base Imit/base Imit/base   Mon-ferrous Metals Imit/base Imit/base Imit/base Imit/base Imit/base   Viscosity @ 40°C Imit/base Imit/base Imit/base Imit/base Imit/base   WearCheck USA - 501 Madison Ave., Cary, NC 27513 SHERWOR SHERWOR   WC0918405 Received Imit/base Imit/base Imit/base   WC0918405 Received Imit/base Imit/base SHERWOR   Imit/base Imit/base Imit/base Imit/base Imit/base   Imit/base Imit/base Imit/base Imit/base Imit/base   Output Imit/base Imit/base Imit/base Imit/base   Imit/base Imit/base Imit/base Imit/base Imit/base   Imit/base Imit/base	SAMPLE IMAGES method limit/base current history1   Color Image Image Image   Bottom Image Image Image   Bottom Image Image Image   GRAPHS Image Image Image   Viscosity @ 40°C Image Image Image   Viscosity @ 40°C Image Image Image   Image Image Image Image   Viscosity @ 40°C Image Image Image   Image Image Image Image Image   Image <td< td=""></td<>	

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

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Submitted By: KEVIN HOHEISEL

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history2

history1