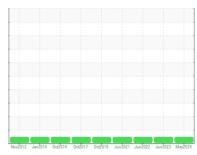


# **OIL ANALYSIS REPORT**

Sample Rating Trend







RK TRUCK 54

Component Hydraulic System

**AW HYDRAULIC OIL ISO 32 (--- GAL)** 

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil.

## Fluid Condition

The condition of the oil is acceptable for the time in service.

Nov2012 Jun2014 Oct014 Oct017 Oct019 Jun2021 Jun2022 Jun2023 May2024								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0917834	WC0818264	WC0703667		
Sample Date		Client Info		14 May 2024	01 Jun 2023	30 Jun 2022		
Machine Age	hrs	Client Info		1046	0	0		
Oil Age	hrs	Client Info		1046	0	0		
Oil Changed		Client Info		N/A	Not Changd	N/A		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATIC	N	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	>20	1	1	1		
Chromium	ppm	ASTM D5185m	>10	0	0	0		
Nickel	ppm	ASTM D5185m	>10	0	<1	<1		
Titanium	ppm	ASTM D5185m		<1	0	0		
Silver	ppm	ASTM D5185m		0	0	<1		
Aluminum	ppm	ASTM D5185m	>10	<1	0	1		
Lead	ppm	ASTM D5185m	>10	<1	1	1		
Copper	ppm	ASTM D5185m	>75	9	9	8		
Tin	ppm	ASTM D5185m	>10	<1	<1	<1		
Antimony	ppm	ASTM D5185m	7.0					
Vanadium	ppm	ASTM D5185m		<1	0	0		
Cadmium	ppm	ASTM D5185m		<1	<1	<1		
ADDITIVES	PPIII	method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	5	0	0	1		
DOTOTT	PPIII							
Rarium								
	ppm	ASTM D5185m	5	0	0	0		
Molybdenum	ppm	ASTM D5185m ASTM D5185m		0 <1	0	0 <1		
Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	5	0 <1 <1	0 0 0	0 <1 0		
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25	0 <1 <1 5	0 0 0 14	0 <1 0 14		
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200	0 <1 <1 5 97	0 0 0 14 100	0 <1 0 14 97		
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300	0 <1 <1 5 97 367	0 0 0 14 100 337	0 <1 0 14 97 360		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370	0 <1 <1 5 97 367 412	0 0 0 14 100 337 405	0 <1 0 14 97 360 396		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500	0 <1 <1 5 97 367 412 2062	0 0 0 14 100 337 405 1848	0 <1 0 14 97 360 396 2162		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANT	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	5 5 25 200 300 370 2500 limit/base	0 <1 <1 5 97 367 412 2062 current	0 0 0 14 100 337 405 1848	0 <1 0 14 97 360 396 2162 history2		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm	ASTM D5185m	5 5 25 200 300 370 2500	0 <1 <1 5 97 367 412 2062 current <1	0 0 0 14 100 337 405 1848 history1	0 <1 0 14 97 360 396 2162 history2 <1		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m	5 5 25 200 300 370 2500 limit/base >20	0 <1 <1 5 97 367 412 2062 current <1 2	0 0 0 14 100 337 405 1848 history1 <1	0 <1 0 14 97 360 396 2162 history2 <1 2		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm	ASTM D5185m	5 5 25 200 300 370 2500 limit/base >20	0 <1 <1 5 97 367 412 2062 current <1	0 0 0 14 100 337 405 1848 history1	0 <1 0 14 97 360 396 2162 history2 <1		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm	ASTM D5185m	5 5 25 200 300 370 2500 limit/base >20	0 <1 <1 5 97 367 412 2062 current <1 2	0 0 0 14 100 337 405 1848 history1 <1	0 <1 0 14 97 360 396 2162 history2 <1 2		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm	ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  method *Visual	5 5 25 200 300 370 2500 limit/base >20 limit/base	0 <1 <1 5 97 367 412 2062 current <1 2 <1 current NONE	0 0 0 14 100 337 405 1848 history1 <1 0 2 history1 NONE	0 <1 0 14 97 360 396 2162 history2 <1 2 <1 history2 NONE		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m  method  ASTM D5185m ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  *Visual	5 5 25 200 300 370 2500 limit/base >20	0 <1 <1 <1 5 97 367 412 2062 current <1 2 <1 current NONE NONE	0 0 0 14 100 337 405 1848 history1 <1 0 2 history1 NONE	0 <1 0 14 97 360 396 2162 history2 <1 2 <1 history2 NONE NONE		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm	ASTM D5185m  method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  method *Visual	5 5 25 200 300 370 2500 limit/base >20 limit/base	0 <1 <1 5 97 367 412 2062 current <1 2 <1 current NONE NONE NONE	0 0 0 14 100 337 405 1848 history1 <1 0 2 history1 NONE	0 <1 0 14 97 360 396 2162 history2 <1 2 <1 history2 NONE		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	ASTM D5185m  method  ASTM D5185m ASTM D5185m  ASTM D5185m  ASTM D5185m  ASTM D5185m  *Visual	5 5 25 200 300 370 2500 limit/base >20	0 <1 <1 <1 5 97 367 412 2062 current <1 2 <1 current NONE NONE	0 0 0 14 100 337 405 1848 history1 <1 0 2 history1 NONE	0 <1 0 14 97 360 396 2162 history2 <1 2 <1 history2 NONE NONE		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	ASTM D5185m  method ASTM D5185m ASTM D5185m  **Visual **Visual	5 5 25 200 300 370 2500 limit/base >20 >20 limit/base NONE NONE	0 <1 <1 5 97 367 412 2062 current <1 2 <1 current NONE NONE NONE	0 0 0 14 100 337 405 1848 history1 <1 0 2 history1 NONE NONE	0 <1 0 14 97 360 396 2162 history2 <1 2 <1 NONE NONE NONE		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm	ASTM D5185m  method ASTM D5185m ASTM D5185m  *Visual *Visual *Visual *Visual	5 5 25 200 300 370 2500 limit/base >20 NONE NONE NONE	0 <1 <1 5 97 367 412 2062 current <1 2 <1 current NONE NONE NONE NONE	0 0 0 14 100 337 405 1848 history1 <1 0 2 history1 NONE NONE	0 <1 0 14 97 360 396 2162 history2 <1 2 <1 NONE NONE NONE NONE		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm	ASTM D5185m  METHOD  ASTM D5185m  METHOD  *Visual  *Visual  *Visual  *Visual  *Visual  *Visual	5 5 25 200 300 370 2500 limit/base >20 NONE NONE NONE NONE	0 <1 <1 <1 5 97 367 412 2062 current <1 2 <1 current NONE NONE NONE NONE NONE NONE NONE	0 0 0 14 100 337 405 1848 history1 <1 0 2 history1 NONE NONE NONE	0 <1 0 14 97 360 396 2162 history2 <1 2 <1 NONE NONE NONE NONE NONE NONE NONE		
Silicon Sodium Potassium	ppm	ASTM D5185m  METHOD  METHOD  *Visual  *Visual	5 5 25 200 300 370 2500 limit/base >20 >20 NONE NONE NONE NONE NONE	0 <1 <1 <1 5 97 367 412 2062 current <1 2 <1 current NONE NONE NONE NONE NONE NONE NONE NON	0 0 14 100 337 405 1848 history1 <1 0 2 history1 NONE NONE NONE NONE NONE NONE NONE NON	0 <1 0 14 97 360 396 2162 history2 <1 2 <1 NONE NONE NONE NONE NONE NONE NONE NON		

**Emulsified Water** 

scalar \*Visual

scalar \*Visual

>0.1

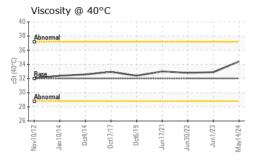
**NEG** 

**NEG** 

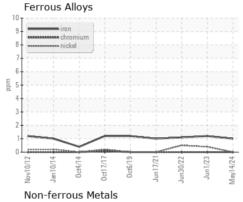
Supported By: RANDEY PRICE

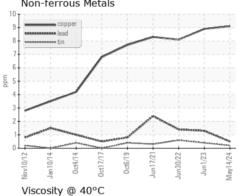


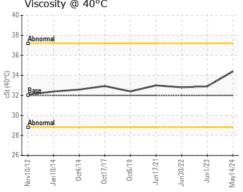
# **OIL ANALYSIS REPORT**



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	34.4	32.9	32.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image









Certificate 12367

Laboratory

Sample No. : WC0917834 Lab Number : 06200914 Unique Number : 11063037 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 05 Jun 2024

Tested : 06 Jun 2024 : 06 Jun 2024 - Wes Davis Diagnosed

211 WEST 3RD ST. N. PLATTE, NE US 69101

Contact: TRENT KLEINOW KLEINOWTD@CI.NORTH.PLATTE.NE.US

To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (308)535-6762

\* - 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)

Submitted By: RANDY PRICE

NORTH PLATTE FIRE DEPT