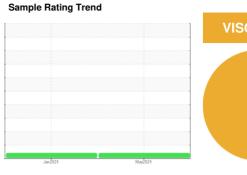


# **OIL ANALYSIS REPORT**

# (242557) KANSAS/88/DR - TRUCK-ON-HWY-HEAVY DUTY 09.19 [KANSAS^88^DR - TRUCK-ON-HWY-HEAVY DUTY]

**Diesel Engine** 

**DIESEL ENGINE OIL SAE 15W40 (--- GAL)** 





### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the

### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

			Jan 2024	May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901143	WC0821563	
Sample Date		Client Info		30 May 2024	10 Jan 2024	
Machine Age	hrs	Client Info		26293	229	
Oil Age	hrs	Client Info		26293	229	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				ATTENTION	ATTENTION	
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	0.7	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	40	8	
Chromium	ppm	ASTM D5185m	>20	2	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>20	12	2	
Lead	ppm	ASTM D5185m	>40	2	<1	
Copper	ppm	ASTM D5185m		24	6	
Tin	ppm	ASTM D5185m	>15	2	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	34	85	
Barium	ppm	ASTM D5185m	10	4	2	
Molybdenum	ppm	ASTM D5185m	100	11	11	
Manganese	ppm	ASTM D5185m		5	4	
Magnesium	ppm	ASTM D5185m	450	699	762	
Calcium	ppm	ASTM D5185m	3000	1289	1315	
Phosphorus	ppm	ASTM D5185m	1150	733	646	
Zinc	ppm	ASTM D5185m	1350	848	782	
Sulfur	ppm	ASTM D5185m	4250	3034	2921	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	37	27	
Sodium	ppm	ASTM D5185m	>158	4	5	
Potassium	ppm	ASTM D5185m	>20	39	10	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0	
Nitration	Abs/cm	*ASTM D7624	>20	10.2	6.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	17.8	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	12.5	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.0	8.9	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0901143 Lab Number : 06204384 Unique Number : 11071845

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Jan 10/24

Received **Tested** Diagnosed

: 10 Jun 2024 : 11 Jun 2024

: 12 Jun 2024 - Sean Felton

Base

2.0 0.0

> SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS

Contact: BILL ORCUTT william.orcutt@wildcat.net T:

Test Package : CONST ( Additional Tests: TBN ) 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)

US 67213

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