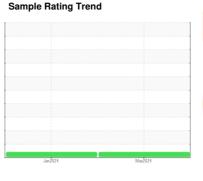


OIL ANALYSIS REPORT

(242555) KANSAS/88/DR - TRUCK-ON-HWY-HEAVY DUTY 09.18 [KANSAS^88^DR - TRUCK-ON-HWY-HEAVY DUTY]

Diesel Engine

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





Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

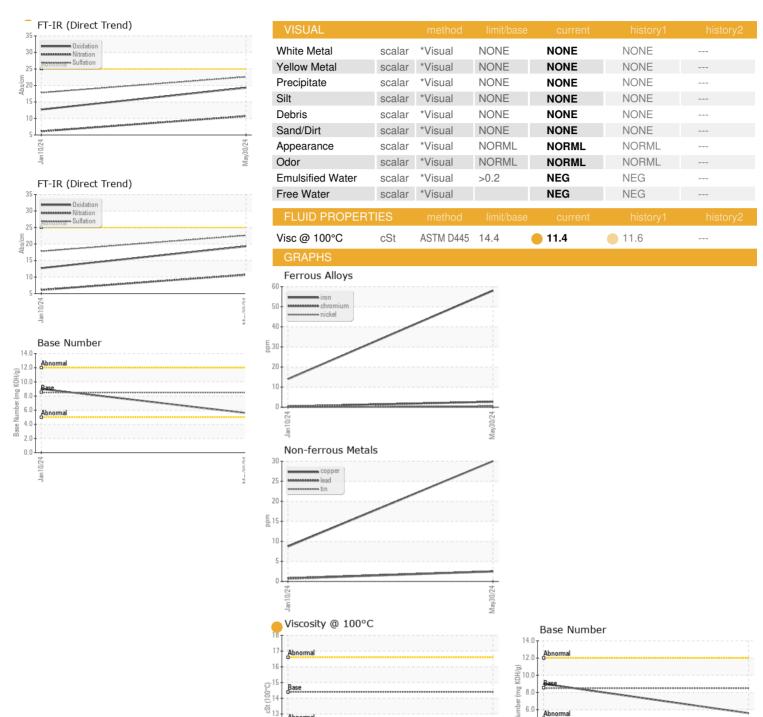
Fluid Condition

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		WC0918036	WC0821562	
Sample Date		Client Info		30 May 2024	10 Jan 2024	
Machine Age	mls	Client Info		28468	237	
Oil Age	mls	Client Info		28468	237	
Oil Changed	11110	Client Info		Changed	Not Changd	
Sample Status		Chorte triio		ATTENTION	ATTENTION	
CONTAMINATION	J	method	limit/base		history1	history2
Fuel	'	WC Method	>3.0	<1.0	0.7	matoryz
Water		WC Method	7 0.0	NEG	NEG	
Glycol		WC Method	<i>></i> 0.2	NEG	NEG	
			12 24 7			111
WEAR METALS		method	limit/base		history1	history2
Iron	ppm	ASTM D5185m	>90	58	14	
Chromium	ppm	ASTM D5185m	>20	3	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	25	2	
Lead	ppm	ASTM D5185m	>40	2	<1	
Copper Tin	ppm	ASTM D5185m	>330	30	9	
Vanadium	ppm	ASTM D5185m	>10	2	<1 0	
Cadmium	ppm	ASTM D5185m		0	0	
	ррш		12 24 //			
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	250	34	87	
Barium	ppm	ASTM D5185m	10	5	3	
Molybdenum	ppm	ASTM D5185m	100	14	10	
Manganese	ppm	ASTM D5185m	450	6	4	
Magnesium	ppm	ASTM D5185m	450	709	753	
Calcium	ppm	ASTM D5185m	3000	1298	1324	
Phosphorus Zinc	ppm	ASTM D5185m	1150	738	641	
Sulfur	ppm	ASTM D5185m ASTM D5185m	1350 4250	862 2979	789 2921	
	ppm					
CONTAMINANTS		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	38	29	
Sodium	ppm	ASTM D5185m	>158	5	2	
Potassium	ppm	ASTM D5185m	>20	81	7	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0	
Nitration	Abs/cm	*ASTM D7624	>20	10.7	6.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.6	17.8	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	12.7	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	9.0	
, ,						



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0918036 Lab Number : 06204378 Unique Number : 11071839

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jun 2024 **Tested**

: 11 Jun 2024 Diagnosed : 12 Jun 2024 - Sean Felton Test Package : CONST (Additional Tests: TBN)

Base 2.0 0.0

> SHERWOOD CONSTRUCTION CO INC 3219 WEST MAY ST WICHITA, KS US 67213 Contact: BILL ORCUTT

> > william.orcutt@wildcat.net

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)

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F: