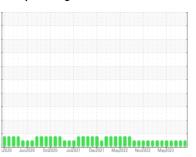


OIL ANALYSIS REPORT

OKLAHOMA CITY 2018 FREIGHTLINER 7729

Component **Diesel Engine**

SHELL Rotella T5 15W-40 (--- QTS)



Sample Rating Trend



DIAGNOSIS	
Recommendation	1

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

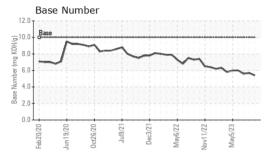
Fluid Condition

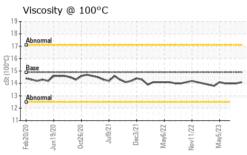
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number	ample Number (WC0838593	WC0838589	WC0820380	
Sample Date		Client Info	05 Oct 2023		12 Sep 2023		
Machine Age	hrs	Client Info	3474		3419	3361	
Oil Age	hrs	Client Info	0		0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>65	27	27	22	
Chromium	ppm	ASTM D5185m	>5	4	4	3	
Nickel	ppm	ASTM D5185m	>3	<1	0	<1	
Titanium	ppm	ASTM D5185m	>5	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>35	13	11	12	
Lead	ppm	ASTM D5185m	>10	<1	0	<1	
Copper	ppm	ASTM D5185m	>180	32	35	33	
Tin	ppm	ASTM D5185m	>8	4	3	4	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		76	58	61	
Barium	ppm	ASTM D5185m		12	0	0	
Molybdenum	ppm	ASTM D5185m		76	77	75	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m		237	216	207	
Calcium	ppm	ASTM D5185m		1781	2030	1954	
Phosphorus	ppm	ASTM D5185m		959	941	939	
Zinc	ppm	ASTM D5185m		1247	1285	1245	
Sulfur	ppm	ASTM D5185m		2893	3511	3362	
CONTAMINANTS	;	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	5	5	4	
Sodium	ppm	ASTM D5185m		2	2	3	
Potassium	ppm	ASTM D5185m	>20	22	22	22	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.6	
Nitration	Abs/cm	*ASTM D7624		9.3	9.9	9.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.3	22.4	
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	16.7	16.9	
ONIUALIUII							
Base Number (BN)	mg KOH/g	ASTM D2896	10	5.4	5.7	5.6	



OIL ANALYSIS REPORT

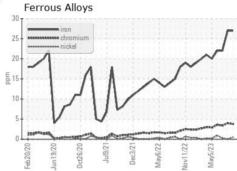


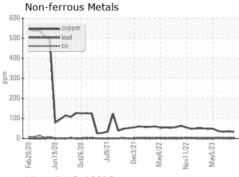


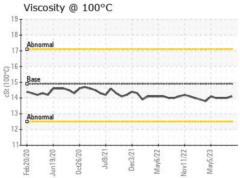
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

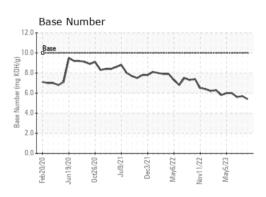
FLUID PROPER	IIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	14.9	14.1	14.0	14.0

GRAPHS













Laboratory Sample No.

Lab Number Unique Number : 10696088

: WC0838593 : 05978793

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Oct 2023 Diagnosed Diagnostician : Wes Davis

: 16 Oct 2023

Test Package : FLEET 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)

LIBERTY DISPOSAL 6401 S EASTERN AVE

OKLAHOMA CITY, OK US 73149

Contact: RICK SCHMIDT r.schmidt@ldi89.com

T: F: