

OIL ANALYSIS REPORT

OKLAHOMA CITY 2018 FREIGHTLINER 7729

Diesel Engine

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

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

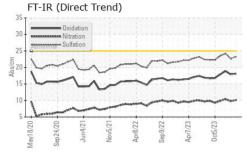
Fluid Condition

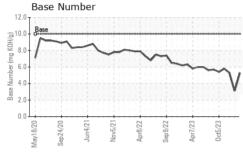
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

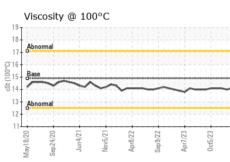
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0559210	WC0559207	WC0857192
Sample Date		Client Info		05 Apr 2024	02 Mar 2024	05 Jan 2024
Machine Age	hrs	Client Info		3996	3695	3135
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>65	32	31	32
Chromium	ppm	ASTM D5185m	>5	5	5	4
	ppm	ASTM D5185m	>3	0	1	0
Titanium	ppm	ASTM D5185m	>5	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>35	15	15	16
	ppm	ASTM D5185m	>10	<1	2	0
Copper	ppm	ASTM D5185m	>180	35	31	35
Tin	ppm	ASTM D5185m	>8	3	6	4
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	2	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		54	41	60
	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		79	72	83
	ppm	ASTM D5185m		<1	2	1
Magnesium	ppm	ASTM D5185m		231	251	258
Calcium	ppm	ASTM D5185m		2157	2207	2060
Phosphorus	ppm	ASTM D5185m		1042	1143	1120
Zinc	ppm	ASTM D5185m		1344	1444	1397
Sulfur	ppm	ASTM D5185m		3665	3969	3679
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	5	5
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	24	26	25
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.7
	Abs/cm	*ASTM D7624	>20	10.1	9.8	10.4
	Abs/.1mm	*ASTM D7415	>30	23.2	22.7	24.2
FLUID DEGRADAT	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	17.9	18.9
	mg KOH/g	ASTM D2896		5.3	3.1	5.3
Dasc Marrider (DIA)	my Normy	AUTIVI DE030	10	5.5	0.1	0.0



OIL ANALYSIS REPORT



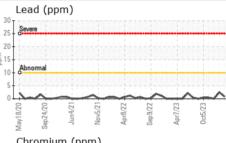


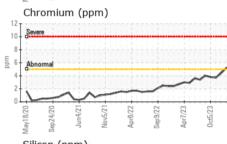


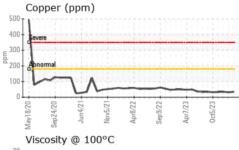
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

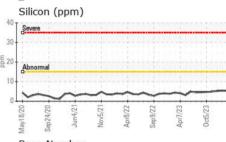
I LOID I NOI LI	TILO	memou			HISTOLYT	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	14.9	14.1	14.0	14.1

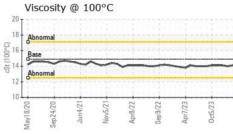
Severe							
	Ш						
Abnormal							_
\	$\overline{}$	_					
May18/20 Sep24/20	Jun4/21	Nov5/21	Apr8/22	Sep9/22	Apr7/23	0ct5/23	
Aluminu	m (pį	om)					
Severe							
Abnormal							

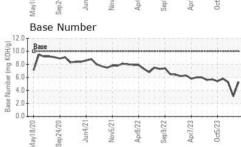
















Certificate 12367

Laboratory Sample No. Lab Number : 06180876

Test Package : MOB1+

: WC0559210 Unique Number : 11032202

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 May 2024 **Tested** : 16 May 2024

Diagnosed : 16 May 2024 - Wes Davis

LIBERTY DISPOSAL 6401 S EASTERN AVE

OKLAHOMA CITY, OK US 73149 Contact: M Rutherford M.Rutherford@ldi89.com

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)

Report Id: SEAOKL [WUSCAR] 06180876 (Generated: 05/16/2024 15:43:59) Rev: 1

Contact/Location: M Rutherford - SEAOKL

T:

F: