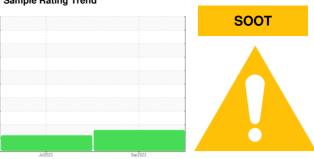


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FREIGHTLINER 96

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 LTR)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Light concentration of carbon/soot present in the oil. Tests confirm the presence of fuel in the oil.

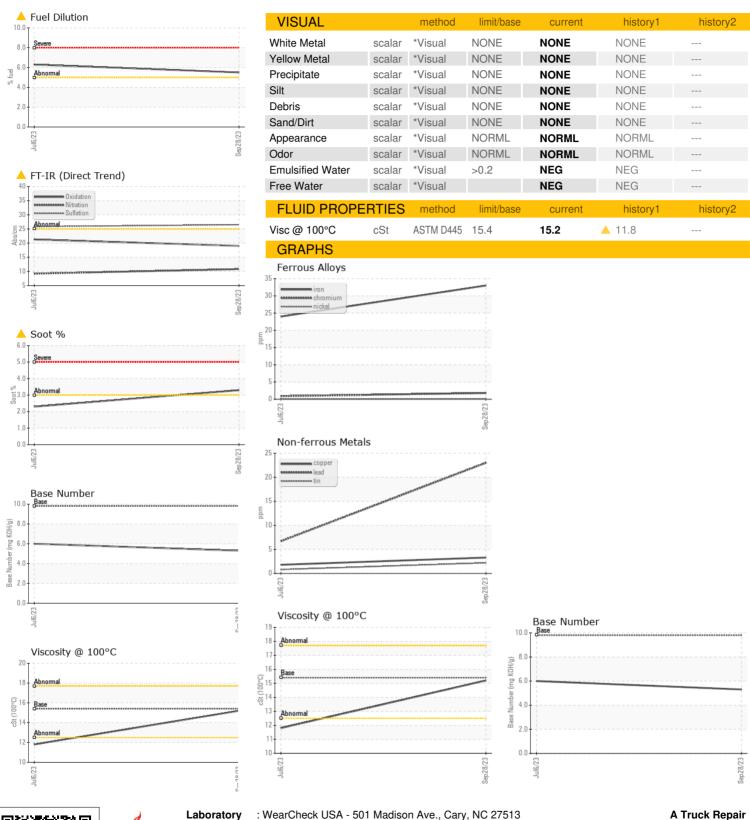
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

.TR)			Jul2023	Sep2023		
SAMPLE INFORM	/ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0105010	PCA0100619	
Sample Date		Client Info		28 Sep 2023	06 Jul 2023	
Machine Age	mls	Client Info		335321	309200	
Oil Age	mls	Client Info		28352	27565	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Nater		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	3	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	33	24	
Chromium	ppm	ASTM D5185m		2	<1	
Nickel	ppm	ASTM D5185m	>2	- <1	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>30	1	2	
_ead	ppm	ASTM D5185m	>30	23	7	
Copper	ppm	ASTM D5185m		3	2	
rin .	ppm	ASTM D5185m	>5	2	<1	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	2	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	59	56	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	882	787	
Calcium	ppm	ASTM D5185m	1070	1111	1081	
Phosphorus	ppm	ASTM D5185m	1150	916	939	
Zinc	ppm	ASTM D5185m	1270	1159	1095	
Sulfur	ppm	ASTM D5185m	2060	3035	3069	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	9	3	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	3	3	
-uel	%	ASTM D3524	>5	<u> </u>	△ 6.3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	▲ 3.3	2.3	
Nitration	Abs/cm	*ASTM D7624		10.8	9.2	
Sulfation	Abs/.1mm	*ASTM D7415		26.5	25.8	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	21.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.3	6.0	
(2.11)		222000	,	<u> </u>		



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: PCA0105010 Lab Number : 06188630 Unique Number : 11045382

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

Received **Tested**

: 23 May 2024 : 28 May 2024 Diagnosed Test Package : FLEET (Additional Tests: PercentFuel)

: 28 May 2024 - Wes Davis

Pineville, NC US 28134 Contact: Vlad Melnichuk shop@migway.com T: (980)255-3200

9349 China Grove Church Road

 st - 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)