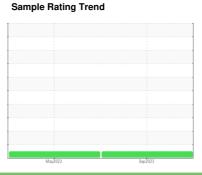


OIL ANALYSIS REPORT

(AY413B) Supermarket - Tractor FREIGHTLINER 107A8811

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (11 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

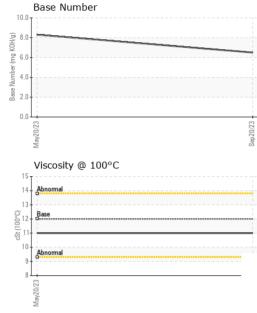
Fluid Condition

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

GAL)			May2023	Sep 2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104094	PCA0097068	
Sample Date		Client Info		20 Sep 2023	20 May 2023	
Machine Age	mls	Client Info		44809	32574	
Oil Age	mls	Client Info		11235	24464	
Oil Changed		Client Info		Changed	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	52	29	
Chromium	ppm	ASTM D5185m	>5	3	2	
Nickel	ppm	ASTM D5185m	>2	<1	<1	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	<1	<1	
Aluminum	ppm	ASTM D5185m		36	17	
Lead	ppm	ASTM D5185m	>30	0	1	
Copper	ppm	ASTM D5185m	>150	149	324	
Tin	ppm	ASTM D5185m	>5	2	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	15	20	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	66	61	
Manganese	ppm	ASTM D5185m	0	2	2	
Magnesium	ppm	ASTM D5185m	950	912	847	
Calcium	ppm	ASTM D5185m	1050	1435	1290	
Phosphorus	ppm	ASTM D5185m	995	982	941	
Zinc	ppm	ASTM D5185m	1180	1250	1174	
Sulfur	ppm	ASTM D5185m	2600	2642	2953	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	8	6	
Sodium	ppm	ASTM D5185m		3	3	
Potassium	ppm	ASTM D5185m	>20	97	46	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	20.2	
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	16.5	
Base Number (BN)	mg KOH/g			6.5	8.3	
= 3.00 · 10.71001 (D14)					0.0	



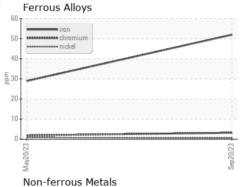
OIL ANALYSIS REPORT

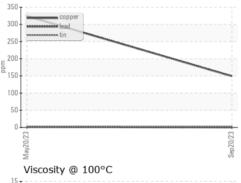


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

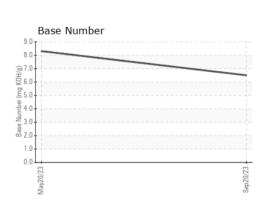
L LOID LUOPE		memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.0	

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10659650 Test Package : FLEET

: PCA0104094 : 05958437

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Sep 2023 Diagnosed Diagnostician : Wes Davis

: 22 Sep 2023

Transervice - Shop 1071 - Supermarket-Dayton 60 A Tower Road Dayton, NJ

US 08810 Contact: Brian Quinn

bquinn@transervice.com T:

* - 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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