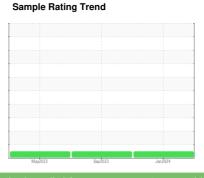


OIL ANALYSIS REPORT

(AY405B) Supermarket - Tractor FREIGHTLINER 107A1864

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.

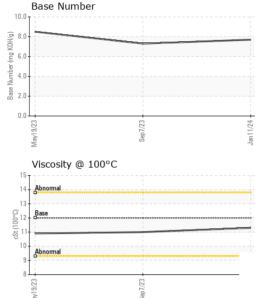
Fluid Condition

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

··· ·/		Ma	/2023	Sep2023 Jan203	14	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0111020	PCA0104085	PCA0097066
Sample Date		Client Info		11 Jan 2024	07 Sep 2023	19 May 2023
Machine Age	mls	Client Info		50569	36452	24488
Oil Age	mls	Client Info		14117	11964	13489
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	23	42	24
Chromium	ppm	ASTM D5185m	>5	1	3	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>30	25	48	28
Lead	ppm	ASTM D5185m	>30	<1	0	1
Copper	ppm	ASTM D5185m	>150	130	182	301
Tin	ppm	ASTM D5185m	>5	<1	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	21	18	24
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	60	65	61
Manganese	ppm	ASTM D5185m	0	1	3	2
Magnesium	ppm	ASTM D5185m	950	853	894	833
Calcium	ppm	ASTM D5185m	1050	1103	1435	1270
Phosphorus	ppm	ASTM D5185m	995	1040	987	961
Zinc	ppm	ASTM D5185m	1180	1219	1245	1180
Sulfur	ppm	ASTM D5185m	2600	2609	2864	3328
CONTAMINANTS method limit/base current history1 history2						history2
Silicon	ppm	ASTM D5185m	>20	5	7	6
Sodium	ppm	ASTM D5185m		2	4	3
Potassium	ppm	ASTM D5185m	>20	60	121	71
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.9	0.5
	Abs/cm	*ASTM D7624	>20	7.8	9.5	7.6
	Abs/.1mm	*ASTM D7415	>30	20.4	21.7	20.8
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	18.5	16.5
J. Hadion						
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	7.3	8.5



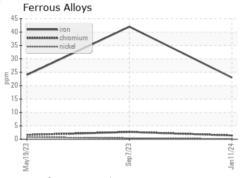
OIL ANALYSIS REPORT

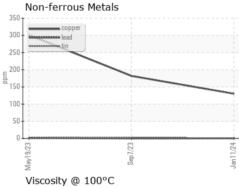


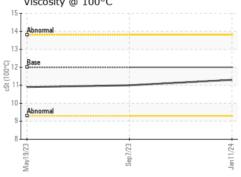
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

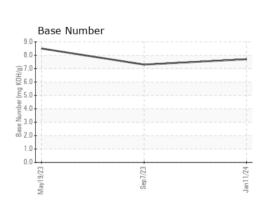
L LLOID PROPI		method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	11.0	10.9

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10835537 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0111020 : 06064155

Recieved : 18 Jan 2024 Diagnosed : 19 Jan 2024

Diagnostician : Wes Davis

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)

Transervice - Shop 1071 - Supermarket-Dayton

60 A Tower Road Dayton, NJ US 08810

Contact: Brian Quinn bquinn@transervice.com

T: F:

Submitted By: Brian Quinn