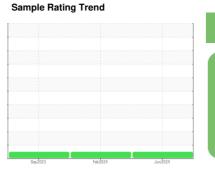


# **OIL ANALYSIS REPORT**

(AY409B) Supermarket - Tractor FREIGHTLINER 107A1891

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (11 GAL)





## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### 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

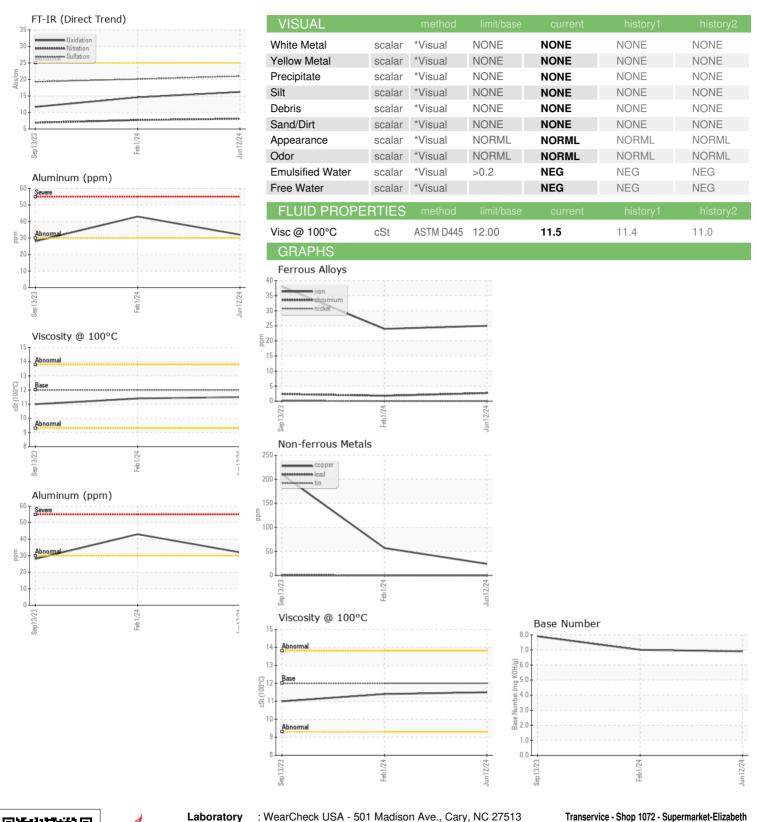
## **Fluid Condition**

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

GAL)		Sej	p2023	Feb2024 Jun20	24	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124732	PCA0116475	PCA0104810
Sample Date		Client Info		12 Jun 2024	01 Feb 2024	13 Sep 2023
Machine Age	mls	Client Info		133994	100758	64551
Oil Age	mls	Client Info		33236	31237	18476
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	25	24	38
Chromium	ppm	ASTM D5185m	>5	3	2	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	32	43	28
Lead	ppm	ASTM D5185m	>30	0	0	0
Copper	ppm	ASTM D5185m	>150	24	57	210
Tin	ppm	ASTM D5185m	>5	0	0	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	1	8	7
Barium	ppm	ASTM D5185m	0	0	5	0
Molybdenum	ppm	ASTM D5185m	50	58	49	59
Manganese	ppm	ASTM D5185m	0	<1	0	2
Magnesium	ppm	ASTM D5185m	950	897	671	932
Calcium	ppm	ASTM D5185m	1050	1262	1402	1332
Phosphorus	ppm	ASTM D5185m	995	994	936	1000
Zinc	ppm	ASTM D5185m	1180	1253	1174	1262
Sulfur	ppm	ASTM D5185m	2600	2885	2711	2960
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	4	4	4
Sodium	ppm	ASTM D5185m		2	0	3
Potassium	ppm	ASTM D5185m	>20	67	92	95
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	0.7	0
Nitration	Abs/cm	*ASTM D7624	>20	8.1	7.7	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.1	19.3
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	14.6	11.7
Base Number (BN)	mg KOH/g	ASTM D2896		6.9	7.0	7.9



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0124732 Lab Number : 06211086 Unique Number : 11083950

Received **Tested** Diagnosed

: 14 Jun 2024 : 18 Jun 2024 : 18 Jun 2024 - Wes Davis

505 Division Street Elizabeth, NJ US 07207

Contact: Normand Brizak nbrizak@transervice.com

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

T:

F: