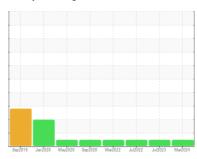


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
406356

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- QTS)

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

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 oil.

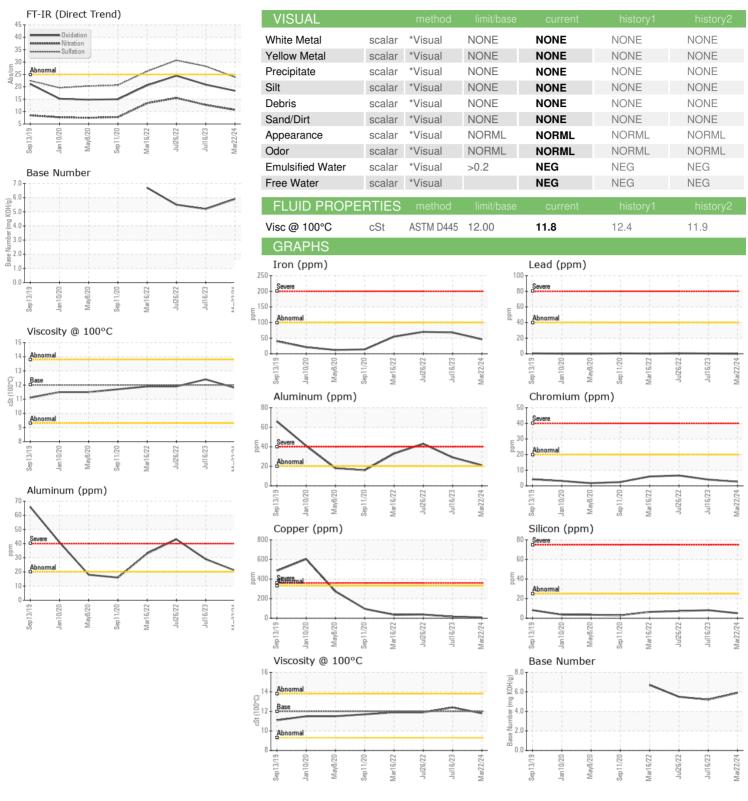
### **Fluid Condition**

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

QTS) Sup2019 Jun2020 May2020 Sup2020 Mar2022 Jul2022 Jul2023 Mar2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0110698	PCA0083827	PCA0071750
Sample Date		Client Info		22 Mar 2024	16 Jul 2023	26 Jul 2022
Machine Age	mls	Client Info		272201	225528	169113
Oil Age	mls	Client Info		46673	56415	51058
Oil Changed		Client Info		Changed	Changed	Changed
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	>100	46	68	70
Chromium	ppm	ASTM D5185m	>20	3	4	7
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		9	48	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	21	29	43
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m		9	16	38
Tin	ppm	ASTM D5185m	>15	<1	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	10	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	30	59
Manganese	ppm	ASTM D5185m	0	<1	1	2
Magnesium	ppm	ASTM D5185m	950	948	616	917
Calcium	ppm	ASTM D5185m	1050	1250	1482	1101
Phosphorus	ppm	ASTM D5185m	995	1055	960	912 1200
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1180 2600	1270 3347	1209 2978	2205
CONTAMINAN	ppm					
		method	limit/base	current	history1	history2
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>25	5	8	7 6
Potassium	ppm	ASTM D5185m	- 20	4 15	33	60
	ppm					
INFRA-RED	0/	method	limit/base	current	history1	history2
Soot %	% A b a /ave	*ASTM D7844	>3	1.8	2.2	2.4
Nitration	Abs/cm	*ASTM D7624	>20	10.7	12.7	15.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	28.3	30.7
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	20.9	24.5
Base Number (BN)	mg KOH/g	ASTM D2896		5.9	5.2	5.5



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory

Sample No. Lab Number : 06140807

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0110698

Unique Number : 10965615

Received **Tested** Diagnosed : 08 Apr 2024

: 08 Apr 2024

: 10 Apr 2024 - Sean Felton

Test Package : MOB 1 ( Additional Tests: TBN ) 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)

**MILLER TRUCK LEASING #123** 

**66 KELLER AVENUE** LANCASTER, PA US 17601

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