

# **OIL ANALYSIS REPORT**

Sample Rating Trend



DT796
Component
Diesel Engine

Machine Id

PETRO CANADA DURON SHP 10W30 (--- QTS

## DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### 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. No other contaminants were detected in the oil.

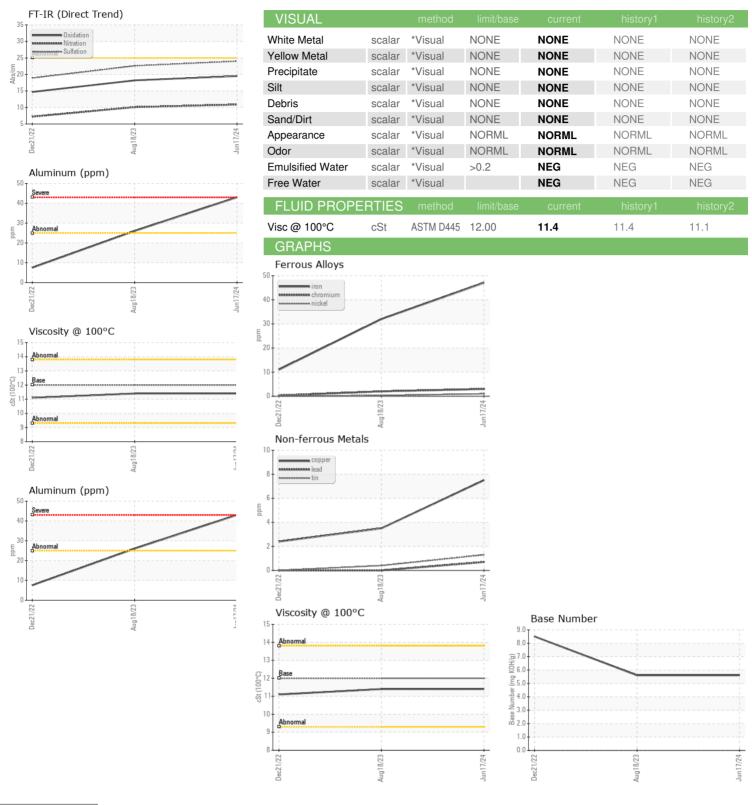
## **Fluid Condition**

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

QTS)		De		Aug <sup>2</sup> 023 Jun <sup>2</sup> 0	24	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed	mls mls	Client Info Client Info Client Info Client Info Client Info		PCA0089202 17 Jun 2024 133409 30373 Changed	PCA0074020 18 Aug 2023 103036 24577 Changed	PCA0080980 21 Dec 2022 78459 13754 Changed
Sample Status  CONTAMINAT		method	limit/base	NORMAL	NORMAL history1	NORMAL history2
Fuel Water Glycol		WC Method WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium Cadmium ADDITIVES	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>110 >4 >2 >2 >2 >25 >45 >85 >4	47 3 1 <1 <1 43 <1 8 1 <1 <1 <1 current	32 2 <1 <1 0 26 0 4 <1 0	11 <1 0 0 0 0 0 8 0 0 2 0 0 0 0 0 history2
Boron	ppm	ASTM D5185m	2	4	3	10
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50	1 68 2 987 1184 1051	0 67 <1 975 1096 1046	2 62 0 911 1169 1022
Zinc	ppm	ASTM D5185m		1319	1306	1236
Sulfur	ppm	ASTM D5185m		2746	2920	2835
CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	simit/base	9 2 65	history1 6 2 49	history2  1 0 19
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30	0.9 10.9 24.0	0.7 10.1 22.6	0.2 7.2 18.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25	19.5 5.6	18.2 5.6	14.7 8.5



## **OIL ANALYSIS REPORT**







Laboratory Sample No.

Lab Number : 06223114 Unique Number : 11101311

: PCA0089202 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 28 Jun 2024 Diagnosed : 30 Jun 2024 - Don Baldridge

: 28 Jun 2024

DUNCAN, SC US 29334 Contact: Matt Quinlan

mquinlan@nwwhite.com T: (864)905-8506

1060 ROGERS BRIDGE RD

NW WHITE & CO - GREER DIVISION

Certificate 12367

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)