

**OIL ANALYSIS REPORT** 

## CONTAMINATION FLUID CONDITION

WEAR

Current

SBP0006517

30 Apr 2024

Changed

685614

22707

22707

NORMAL MARGINAL

NORMAL

History1

07 Dec 2022

662911

Not Changd ---

26120

26120

SBP0002483 ----

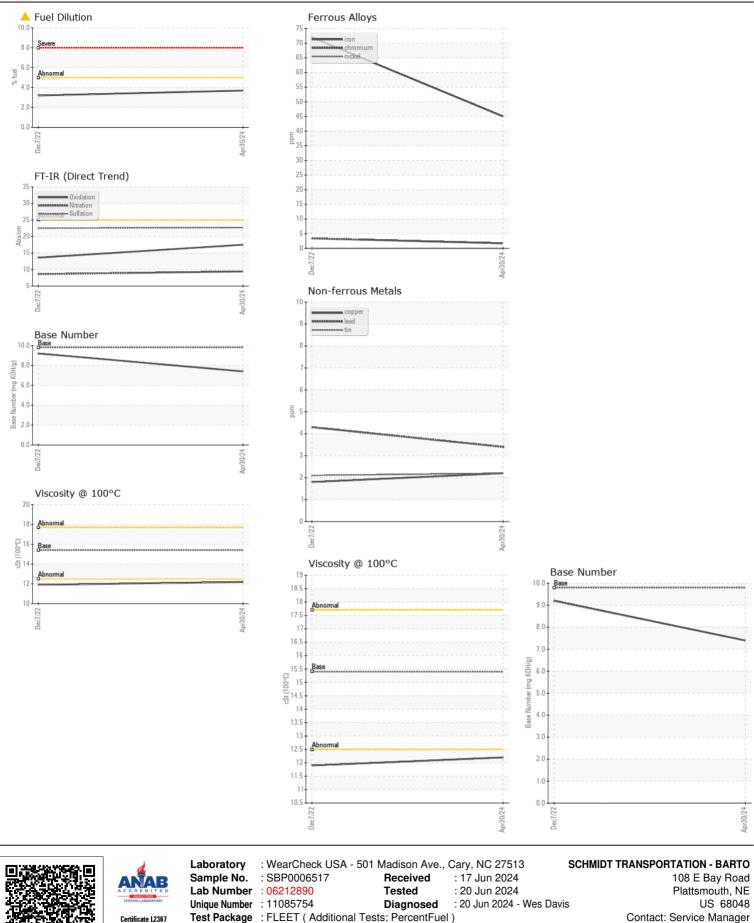
History2

## BARTO 6330 [BARTO] **Diesel Engine** PETRO CANADA DURON SHP 15W40 (--- GAL) RECOMMENDATION Test UOM Method Limit/Abn Client Info Sample Number The oil change at the time of sampling has been noted. Resample at Sample Date **Client Info** the next service interval to monitor. No other corrective action is Machine Age mls Client Info recommended at this time. Oil Age mls **Client Info** Filter Age mls Client Info **Oil Changed Client Info** WEAR All component wear rates are normal. **CONTAMINATION** Light fuel dilution occurring. 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.

On Onlangeu		Olient Into		Changeu	Not Onangu	
Filter Changed		Client Info		Changed	N/A	
Sample Status				MARGINAL	ABNORMAL	
Iron	ppm	ASTM D5185m	>80	45	72	
Chromium	ppm	ASTM D5185m	>5	2	3	
Nickel	ppm	ASTM D5185m	>2	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>30	2	2	
Lead	ppm	ASTM D5185m	>30	3	4	
Copper	ppm	ASTM D5185m	>150	2	2	
Tin	ppm	ASTM D5185m	>5	2	2	
Vanadium	ppm	ASTM D5185m		0	0	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>20	4	6	
Potassium	ppm	ASTM D5185m	>20	3	0	
Fuel	%	ASTM D3524	>5	<b>4</b> 3.7	<b>3</b> .2	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	1.7	1.8	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.5	
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	
Sodium	ppm	ASTM D5185m		8	0	
Boron	ppm	ASTM D5185m	0	6	9	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	39	
Manganese	ppm	ASTM D5185m	0	1	<1	
Magnesium	ppm	ASTM D5185m	1010	930	820	
Calcium	ppm	ASTM D5185m	1070	1157	1681	
Phosphorus	ppm	ASTM D5185m	1150	1078	940	
Zinc	ppm	ASTM D5185m	1270	1229	1183	
Sulfur	ppm	ASTM D5185m	2060	3438	3653	
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	13.6	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	9.2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.2	11.9	



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)

Submitted By: AARON MERITHEW Page 2 of 2

T:

F: