

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **498272** 

Component **Diesel Engine** 

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

### **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

The aluminum level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the

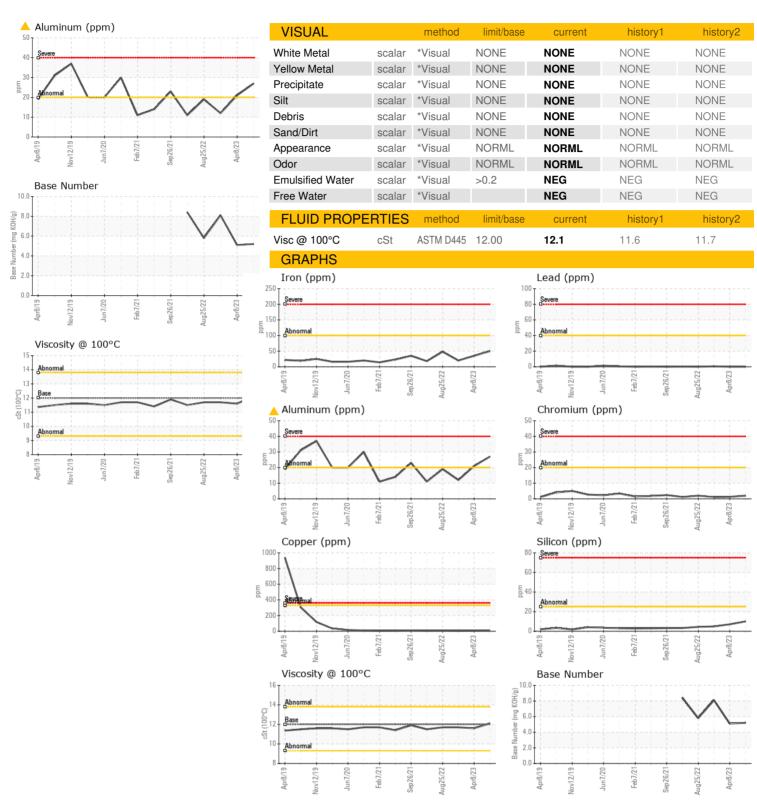
### **Fluid Condition**

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

) (SIS)		Apr2019 No	ov2019 Jun2020 Feb	.2021 Sep2021 Aug2022	Apr2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0101317	PCA0095920	PCA0088167
Sample Date		Client Info		03 Jul 2023	08 Apr 2023	17 Dec 2022
Machine Age	mls	Client Info		335881	316027	293166
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	50	35	20
Chromium	ppm	ASTM D5185m	>20	2	1	1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	21	12
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	9	6	4
Tin	ppm	ASTM D5185m	>15	2	<1	<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	4	4	7
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	50	71	66	68
Manganese	ppm	ASTM D5185m	0	1	1	<1
Magnesium	ppm	ASTM D5185m	950	912	910	928
Calcium	ppm	ASTM D5185m	1050	1166	1095	1222
Phosphorus	ppm	ASTM D5185m	995	1021	929	989
Zinc	ppm	ASTM D5185m	1180	1231	1204	1254
Sulfur	ppm	ASTM D5185m	2600	2705	2782	3298
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	7	5
Sodium	ppm	ASTM D5185m		2	4	2
Potassium	ppm	ASTM D5185m	>20	24	16	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2	1.3	0.9
Nitration	Abs/cm	*ASTM D7624	>20	12.3	9.9	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1	21.9	19.8
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	17.8	15.5
Base Number (BN)	mg KOH/g	ASTM D2896		5.2	5.1	8.1
(DIV)	mg nong			<b>U.</b> _	0.1	0.1



## OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: 05899678 : 10561034

: PCA0101317

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician

: 17 Jul 2023 : 19 Jul 2023 : Jonathan Hester

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

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