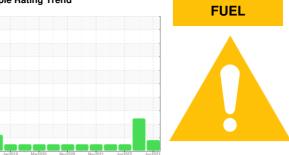


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **497799**

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (18 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

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.

QTS)		Jul2018	Jan 2019 Mar 2020	Nov2020 Nov2021 Jun2022	Jun2023	
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0097784	PCA0090018	PCA0068609
Sample Date		Client Info		12 Jun 2023	07 Feb 2023	14 Jun 2022
Machine Age	mls	Client Info		291344	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	84	77	44
Chromium	ppm	ASTM D5185m	>20	2	2	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	8	9	7
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	2	2	1
Tin	ppm	ASTM D5185m	>15	0	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	2	17	9	22
Barium	ppm	ASTM D5185m	0	12	0	0
Molybdenum	ppm	ASTM D5185m	50	92	65	98
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	950	1089	861	1046
Calcium	ppm	ASTM D5185m	1050	1453	1141	1386
Phosphorus	ppm	ASTM D5185m	995	1203	958	1092
Zinc	ppm	ASTM D5185m	1180	1504	1212	1357
Sulfur	ppm	ASTM D5185m	2600	3445	2553	3585
CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	5	7	5
Sodium	ppm	ASTM D5185m		4	4	2
Potassium	ppm	ASTM D5185m	>20	1	3	11
Fuel	%	ASTM D3524	>5	<u>^</u> 2.2	24.0	<1.0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	2.1	1.4	0.9
Nitration	Abs/cm	*ASTM D7624	>20	19.6	16.1	16.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	36.9	29.8	28.8
FLUID DEGRAI	OATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	37.6	30.8	28.5
Base Number (BN)	mg KOH/g	ASTM D2896	720	6.2	4.9	6.9
Dado Hamber (DIA)	mg Norry	, 10 THI DE000		0.2	7.0	0.0



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA0097784

: 05888644 : 10539127

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2023 Diagnosed

: 05 Jul 2023 Diagnostician : Don Baldridge

Test Package: MOB 1 (Additional Tests: PercentFuel, 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.

63 REPAUPO STATION ROAD LOGAN TOWNSHIP, NJ US 08085

Contact: ED DAVIS edavis@millertransgroup.com

Contact/Location: ED DAVIS - MILLOG

T: (856)214-3521 F: (856)214-3663

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)