

# **OIL ANALYSIS REPORT**

# Sample Rating Trend







Machine Id DT637 Component **Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (44 mls)

# DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the

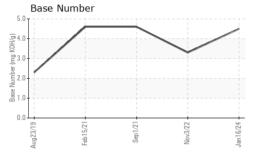
# **Fluid Condition**

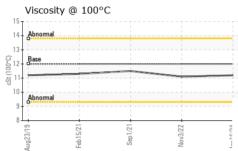
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

714 3111 10W30 (4		Aug2019	Feb 2021	Sep 2021 Nov 2022	Jan 2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0074047	PCA0080454	PCA0050642
Sample Date		Client Info		16 Jan 2024	03 Nov 2022	01 Sep 2021
Machine Age	mls	Client Info		232545	192431	0
Oil Age	mls	Client Info		40114	51420	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	33	69	28
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>5	1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	8	14	9
Lead	ppm	ASTM D5185m	>40	<1	2	0
Copper	ppm	ASTM D5185m	>330	16	6	5
Tin	ppm	ASTM D5185m	>15	<1	2	1
Antimony	ppm	ASTM D5185m				0
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	2	2	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	65	60	50
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	950	946	963	848
Calcium	ppm	ASTM D5185m	1050	1071	1171	1113
Phosphorus	ppm	ASTM D5185m	995	974	1050	875
Zinc	ppm	ASTM D5185m	1180	1252	1300	1115
Sulfur	ppm	ASTM D5185m	2600	2638	2759	2359
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	13	5
Sodium	ppm	ASTM D5185m		3	6	6
Potassium	ppm	ASTM D5185m	>20	8	25	21
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1	1.7	0.9
Nitration	Abs/cm	*ASTM D7624	>20	12.4	16.8	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	31.6	23
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	29.7	17.8
Base Number (BN)	mg KOH/g	ASTM D2896		4.5	3.3	4.6
. ,	- 0					



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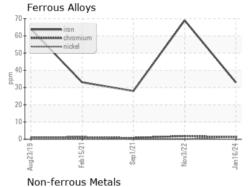


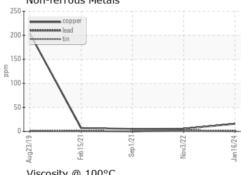


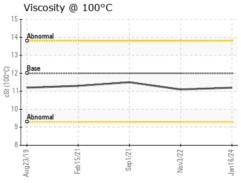
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

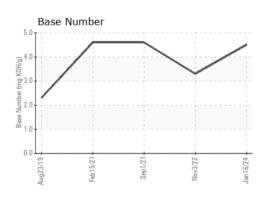
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	11.1	11.5

# **GRAPHS**













Certificate L2367

Laboratory Sample No.

Lab Number : 06104803 Unique Number : 10903033 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0074047

**Tested** Diagnosed

Received : 29 Feb 2024 : 01 Mar 2024 : 04 Mar 2024 - Sean Felton

1060 ROGERS BRIDGE RD DUNCAN, SC

US 29334 Contact: Matt Quinlan mquinlan@nwwhite.com

T: (864)905-8506

NW WHITE & CO - GREER DIVISION

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)

Report Id: NWWDUN [WUSCAR] 06104803 (Generated: 03/04/2024 16:28:43) Rev: 1

Submitted By: Matt Quinlan