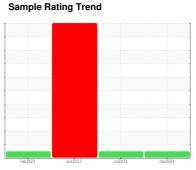


OIL ANALYSIS REPORT



NORMAL



Machine Id **734062**

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- 0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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. There is no indication of any contamination in the oil.

Fluid Condition

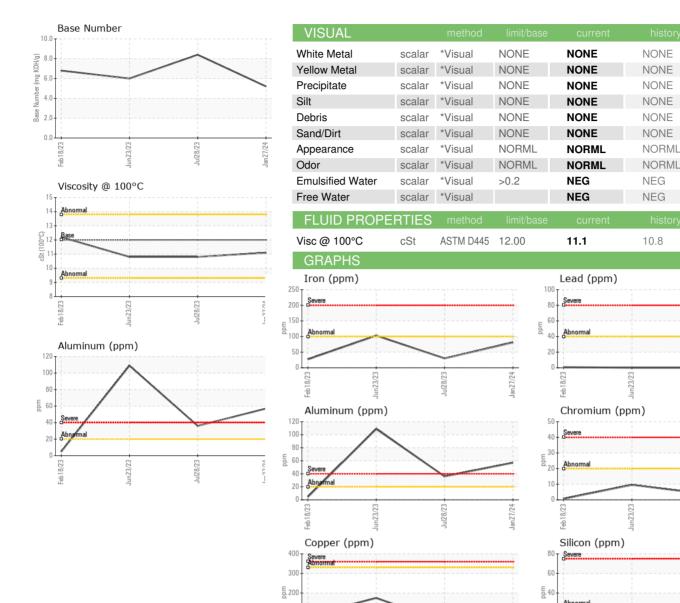
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Feb 202	3 Jun ² 023	Jul2023 Ja	n2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114559	PCA0100785	PCA0100765
Sample Date		Client Info		27 Jan 2024	28 Jul 2023	23 Jun 2023
Machine Age	mls	Client Info		0	0	77626
Oil Age	mls	Client Info		0	0	77626
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	△ 0.06
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	81	30	▲ 103
Chromium	ppm	ASTM D5185m	>20	6	4	10
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	57	36	• 109
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	51	51	175
Tin	ppm	ASTM D5185m	>15	3	1	5
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	6	11	24
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	50	60	56	46
Manganese	ppm	ASTM D5185m	0	2	1	4
Magnesium	ppm	ASTM D5185m	950	917	817	569
Calcium	ppm	ASTM D5185m	1050	1333	1270	1785
Phosphorus	ppm	ASTM D5185m	995	973	949	719
Zinc	ppm	ASTM D5185m	1180	1225	1130	882
Sulfur	ppm	ASTM D5185m	2600	2186	2806	2004
CONTAMINAN		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>25	8	5	11
Sodium	ppm	ASTM D5185m		5	2	12
Potassium	ppm	ASTM D5185m	>20	120	68	<u>^</u> 246
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6	0.5	1.6
Nitration	Abs/cm	*ASTM D7624		12.4	7.8	14.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.3	20.0	27.1
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	24.1	16.3	30.3
Base Number (BN)	mg KOH/g	ASTM D2896		5.2	8.4	6.0

Contact/Location: ROSTY VITER - MILPHINE



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

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

: PCA0114559 : 06084210 Unique Number: 10871655

:St (100°C)

100

Viscosity @ 100°C

Received : 08 Feb 2024 **Tested** Diagnosed

: 09 Feb 2024 : 09 Feb 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: TBN)

Jul28/23

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)



PHILADELPHIA, PA US 19116 Contact: ROSTY VITER

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

10.8

rviter@millertransgroup.com T: (215)552-9832 F: (215)552-9892

Report Id: MILPHINE [WUSCAR] 06084210 (Generated: 02/09/2024 18:44:48) Rev: 1

Contact/Location: ROSTY VITER - MILPHINE

Base Number

10.0 (mg K0H/g)

4.0 Base No 2.0 0.0