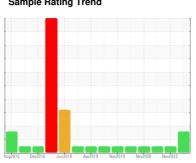


OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



MCI 330U

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

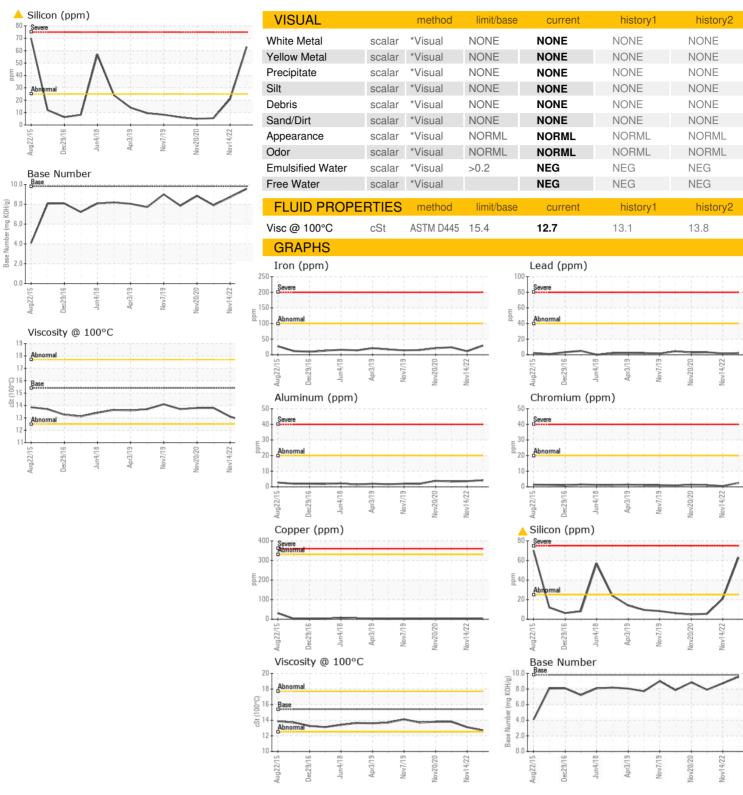
Fluid Condition

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.

GAL)		Aug2015 D	ac2016 Jun2018 Apr	2019 Nov2019 Nov2020 I	Nov2022	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0095374	PCA0082315	PCA0056185
Sample Date		Client Info		14 Jul 2023	14 Nov 2022	28 Oct 2021
Machine Age	mls	Client Info		301520	282256	264550
Oil Age	mls	Client Info		14264	1592	13935
Oil Changed		Client Info		Changed	Changed	Changed
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	29	11	24
Chromium	ppm	ASTM D5185m	>20	2	<1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	3	0
Aluminum	ppm	ASTM D5185m	>20	4	4	3
Lead	ppm	ASTM D5185m	>40	2	2	3
Copper	ppm	ASTM D5185m	>330	2	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	20	60	10
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	63	55	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	772	719	1040
Calcium	ppm	ASTM D5185m	1070	1290	1199	1167
Phosphorus	ppm	ASTM D5185m	1150	764	725	1111
Zinc	ppm	ASTM D5185m	1270	997	922	1308
Sulfur	ppm	ASTM D5185m	2060	3001	2783	2687
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	△ 63	21	6
Sodium	ppm	ASTM D5185m		24	40	4
Potassium	ppm	ASTM D5185m	>20	1	5	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.1	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.9	6.4	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	20.8	23
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	15.4	19.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.55	8.72	7.90



OIL ANALYSIS REPORT







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

: 05927443 : 10607390

: PCA0095374 : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Aug 2023 Diagnosed : 21 Aug 2023 : Jonathan Hester Diagnostician

BROWN BUS COMPANY - UPSTATE TRANSIT 50 VENNER ROAD AMSTERDAM, NY US 12010 Contact: CONNIE WILBUR

cwilbur@browncoach.com T: (518)843-4700

* - 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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