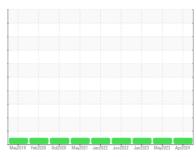


OIL ANALYSIS REPORT

Sample Rating Trend





335U Component Diesel Engine

Machine Id

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

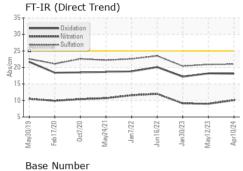
Fluid Condition

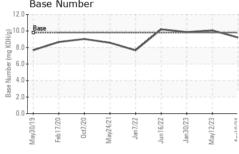
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

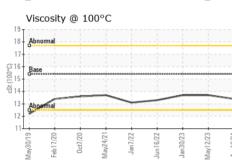
GAL)		May2019 Feb	2020 Oct2020 May2021	Jan2022 Jun2022 Jan2023 May20	23 Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0112158	PCA0095371	PCA0082317
Sample Date		Client Info		10 Apr 2024	12 May 2023	30 Jan 2023
Machine Age	mls	Client Info		183420	152201	139859
Oil Age	mls	Client Info		15981	12347	15168
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	23	15	23
Chromium	ppm	ASTM D5185m	>20	2	1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	7	<1	7
Lead	ppm	ASTM D5185m	>40	3	<1	3
Copper	ppm	ASTM D5185m	>330	2	2	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	66	63	64
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1056	974	1043
Calcium	ppm	ASTM D5185m	1070	1148	1064	1188
Phosphorus	ppm	ASTM D5185m	1150	1164	996	1069
Zinc	ppm	ASTM D5185m	1270	1360	1268	1337
Sulfur	ppm	ASTM D5185m	2060	3270	3229	3379
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	4	7
Sodium	ppm	ASTM D5185m		5	2	3
Potassium	ppm	ASTM D5185m	>20	1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.0	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.9	20.4
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	18.2	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.21	10.07	9.87



OIL ANALYSIS REPORT



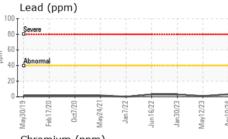


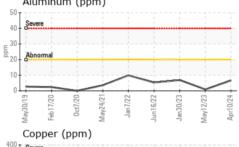


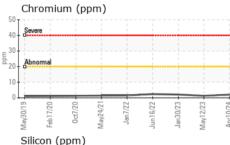
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

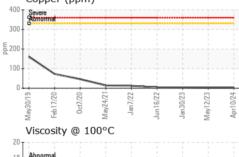
FLUID PROPE	RHES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.7	13.7

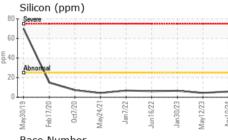
Iron (pp	m)						
Severe							
150 - Abnormal							
50							
٠	\Rightarrow		2+-	2	3	3	-
May30/19 Feb17/20)ct7/2	May24/2	Jan7/2	Jun16/2	Jan30/23	May12/2	Apr10/24
_	,		7	ηſ	P	Ma	Αi
Aluminu	m (p	pm)					
Severe							
40 7							

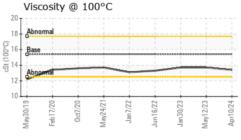


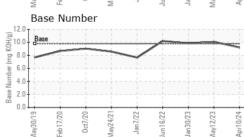
















Certificate 12367

Laboratory Sample No.

Lab Number : 06159323 Unique Number : 10994746

: PCA0112158 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024

Tested : 25 Apr 2024 Diagnosed : 25 Apr 2024 - Wes Davis

BROWN BUS COMPANY - UPSTATE TRANSIT 50 VENNER ROAD AMSTERDAM, NY

US 12010 Contact: CONNIE WILBUR cwilbur@browncoach.com T: (518)843-4700

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) F: (518)843-3600 Contact/Location: CONNIE WILBUR - BROAMS