



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

170

Component

Diesel Engine

Fluid

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

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0879012	LHM1381992	WCM1389339
Sample Date		Client Info		26 Dec 2023	24 Aug 2017	25 Jul 2017
Machine Age	mls	Client Info		0	23592	0
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	11	72	44
Chromium	ppm	ASTM D5185m	>20	<1	4	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	2	33
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>20	3	1	2
Lead	ppm	ASTM D5185m	>40	0	7	11
Copper	ppm	ASTM D5185m	>330	1	186	22
Tin	ppm	ASTM D5185m	>15	<1	5	6
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

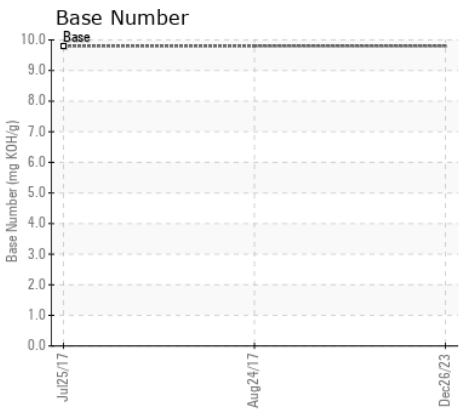
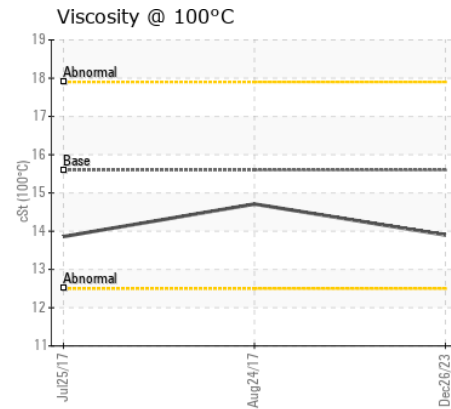
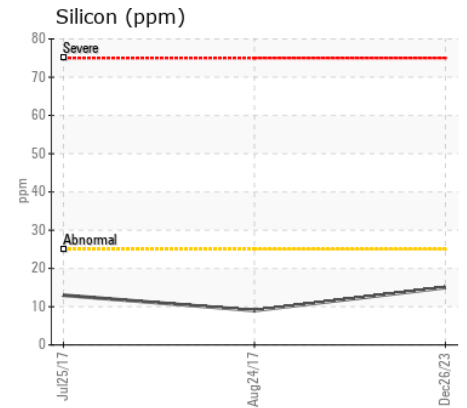
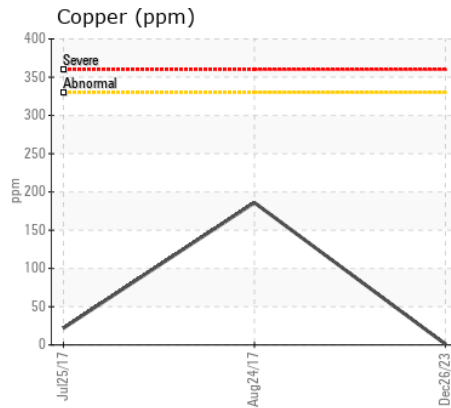
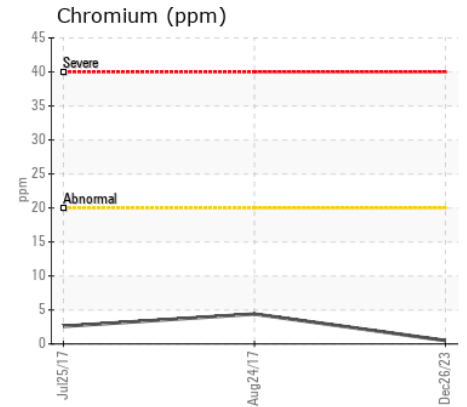
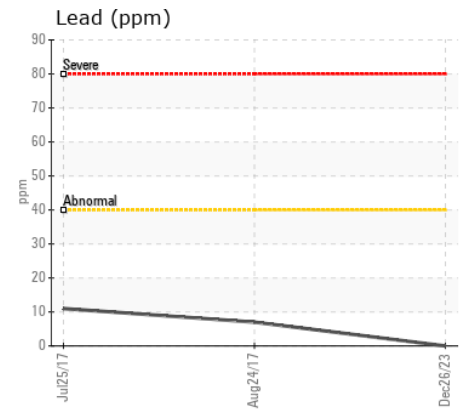
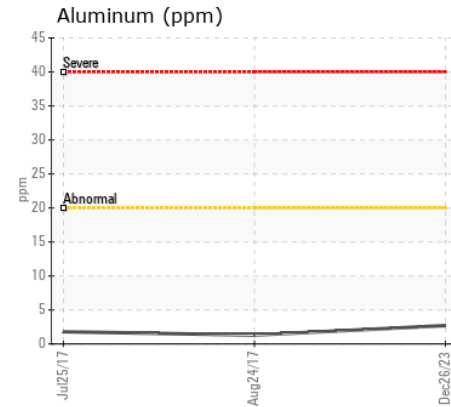
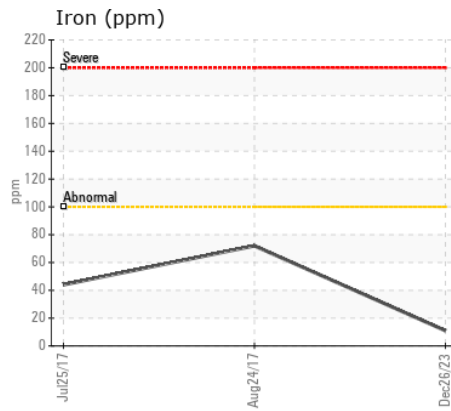
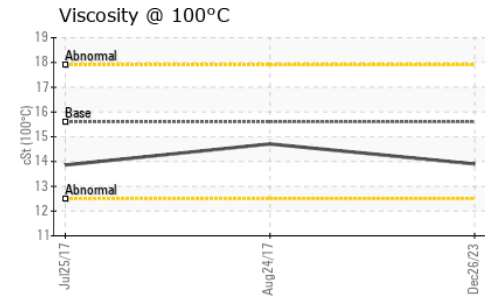
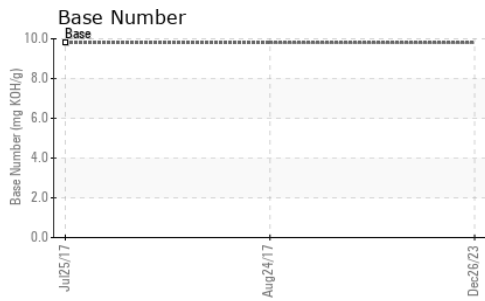
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	15	9	13
Potassium	ppm	ASTM D5185m	>20	2	6	17
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.3	1.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.9	8.	5.
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	20.	16.
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

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.

Sodium	ppm	ASTM D5185m		0	5	11
Boron	ppm	ASTM D5185m		5	5	90
Barium	ppm	ASTM D5185m		9	0	3
Molybdenum	ppm	ASTM D5185m		67	62	44
Manganese	ppm	ASTM D5185m		0	1	1
Magnesium	ppm	ASTM D5185m		988	1024	384
Calcium	ppm	ASTM D5185m		1119	1135	1732
Phosphorus	ppm	ASTM D5185m		1089	1074	1772
Zinc	ppm	ASTM D5185m		1274	1260	1965
Sulfur	ppm	ASTM D5185m		3370	2641	4477
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.	8.
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	---	---
Visc @ 100°C	cSt	ASTM D445	15.6	13.9	14.71	13.86



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0879012 **Received** : 26 Dec 2023
Lab Number : 06045470 **Tested** : 27 Dec 2023
Unique Number : 10806078 **Diagnosed** : 27 Dec 2023 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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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)