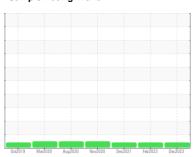


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Chevrolet 4363

Component

Gasoline Engine

PETRO CANADA DURON SHP 10W30 (--- GAL)

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

There is no indication of any contamination in the oil.

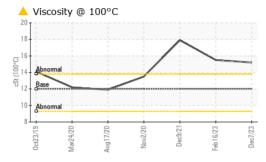
▲ Fluid Condition

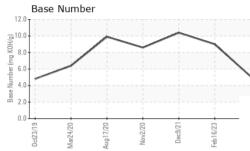
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

GAL)		Oct2019	Mar2020 Aug2020	Nov2020 Dec2021 Feb2023	Dec2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0091671	PCA0071433	PCA0045580
Sample Date		Client Info		07 Dec 2023	16 Feb 2023	09 Dec 2021
Machine Age	mls	Client Info		70200	58519	50612
Oil Age	mls	Client Info		11681	7907	11597
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<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	>150	24	21	35
Chromium	ppm	ASTM D5185m	>20	1	<1	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	5	4	6
Lead	ppm	ASTM D5185m	>50	1	<1	2
Copper	ppm	ASTM D5185m	>155	42	43	65
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	4	27
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	56	45	17
Manganese	ppm	ASTM D5185m	0	<1	2	2
Magnesium	ppm	ASTM D5185m	950	857	798	813
Calcium	ppm	ASTM D5185m	1050	891	971	1324
Phosphorus	ppm	ASTM D5185m	995	814	759	704
Zinc	ppm	ASTM D5185m	1180	1085	1068	903
Sulfur	ppm	ASTM D5185m	2600	2359	2607	2437
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	10	8	14
Sodium	ppm	ASTM D5185m	>400	4	4	6
Potassium	ppm	ASTM D5185m	>20	<1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	20.1	16.2	21.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	34.1	42.8	46.6
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	40.2	34.9	38.9
Base Number (BN)	mg KOH/g	ASTM D2896		5.1	9.0	10.4



OIL ANALYSIS REPORT

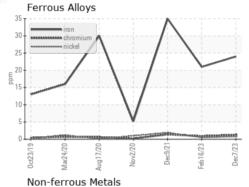


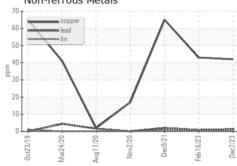


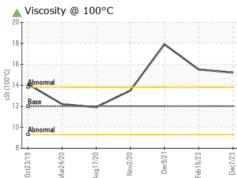
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

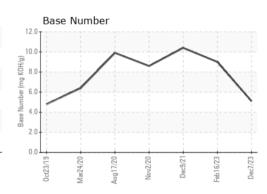
FLUID FROF	LULIES	method			HISTOLAL	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	12.00	15.2	<u> </u>	△ 17.9

GRAPHS











Laboratory Sample No. Lab Number

: PCA0091671 : 06040285 Unique Number : 10795514

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Dec 2023

Diagnosed : 21 Dec 2023 Diagnostician : Sean Felton

Test Package : FLEET (Additional Tests: FT-IR(Diff)) 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.

ICSB370 - Alton 4525 North Alby Road

Godfrey, IL US 62035 Contact: Chad Ingold

c.ingold@illinois-central.com

T: (618)466-5400

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)