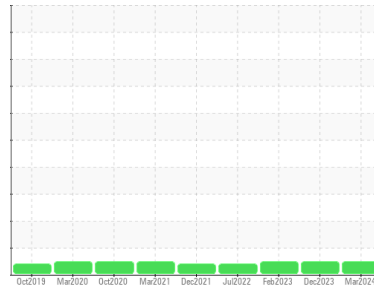


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
Chevrolet 4503

Component
Gasoline Engine

Fluid
PETRO CANADA DURON SHP 10W30 (6 QTS)

DIAGNOSIS

Recommendation

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0112709	PCA0091748	PCA0071429
Sample Date	Client Info		28 Mar 2024	08 Dec 2023	15 Feb 2023
Machine Age	mls	Client Info	129680	125069	114022
Oil Age	mls	Client Info	4611	11047	8354
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	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 METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	12	28	14
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >5	0	0	<1
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >40	3	3	4
Lead	ppm	ASTM D5185m >50	1	0	<1
Copper	ppm	ASTM D5185m >155	14	22	20
Tin	ppm	ASTM D5185m >10	0	0	<1
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	4	2	1
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	62	59	58
Manganese	ppm	ASTM D5185m 0	<1	1	2
Magnesium	ppm	ASTM D5185m 950	986	887	900
Calcium	ppm	ASTM D5185m 1050	1182	996	1067
Phosphorus	ppm	ASTM D5185m 995	1036	776	855
Zinc	ppm	ASTM D5185m 1180	1326	1150	1174
Sulfur	ppm	ASTM D5185m 2600	3350	2402	2748

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	9	9	8
Sodium	ppm	ASTM D5185m >400	3	0	4
Potassium	ppm	ASTM D5185m >20	2	2	<1

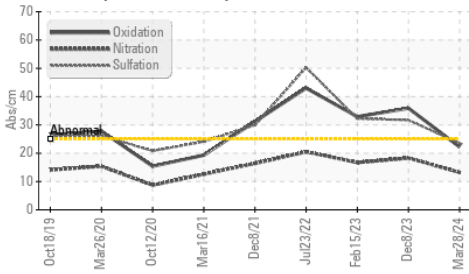
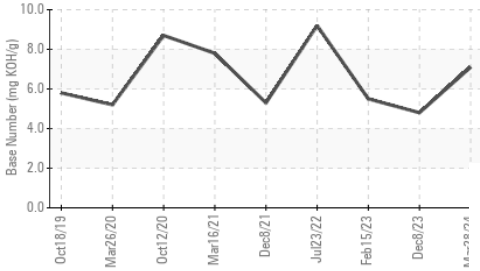
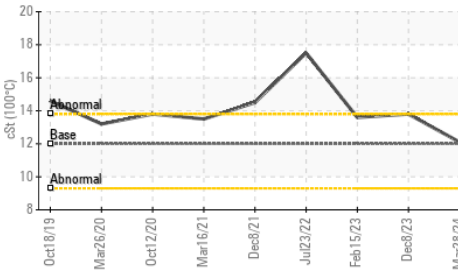
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	13.2	18.3	16.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.5	31.7	32.2

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	22.2	35.9	32.9
Base Number (BN)	mg KOH/g	ASTM D2896	7.1	4.8	5.5

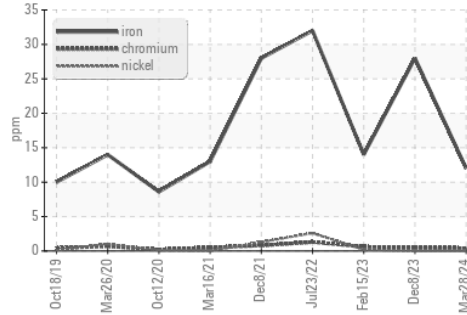
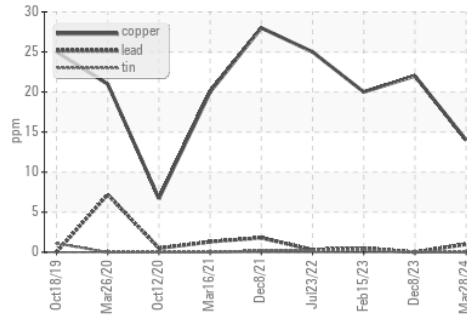
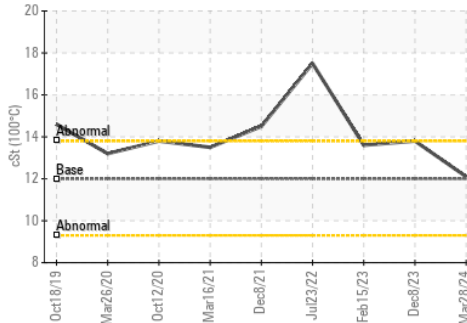
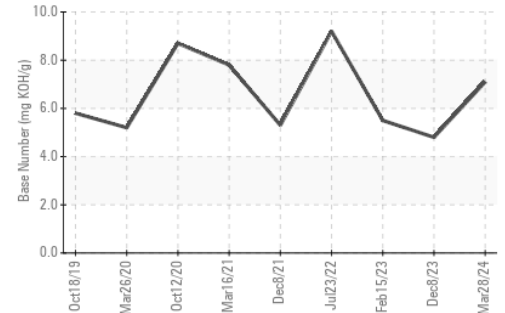
OIL ANALYSIS REPORT

FT-IR (Direct Trend)

Base Number

Viscosity @ 100°C


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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	12.1	13.8

GRAPHS

Ferrous Alloys

Non-ferrous Metals

Viscosity @ 100°C

Base Number


Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0112709
Lab Number : **06215318**
Unique Number : 11088182
Test Package : FLEET

Received : 20 Jun 2024
Tested : 21 Jun 2024
Diagnosed : 21 Jun 2024 - Wes Davis

ICSB370 - Alton
 4525 North Alby Road
 Godfrey, IL
 US 62035

Contact: Chad Ingold
 c.ingold@illinois-central.com
 T: (618)466-5400

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)