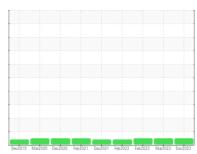


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



NORMAL



# Ford 4542

Component

Gasoline Engine Fluid

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

# 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

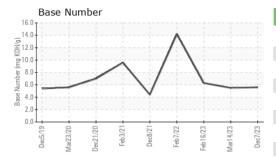
## **Fluid Condition**

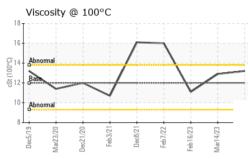
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Dec2019 Ma	72020 Dec2020 Feb2021	Dec2021 Feb2022 Feb2023 Mar200	23 Dec2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0091608	PCA0071418	PCA0045392
Sample Date		Client Info		07 Dec 2023	14 Mar 2023	16 Feb 2023
Machine Age	mls	Client Info		126814	113361	94613
Oil Age	mls	Client Info		13453	18748	8629
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	19	22	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	5	9	4
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>155	3	4	2
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	1	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	62	54	49
Manganese	ppm	ASTM D5185m	0	2	2	2
Magnesium	ppm	ASTM D5185m	950	978	895	785
Calcium	ppm	ASTM D5185m	1050	1030	972	917
Phosphorus	ppm	ASTM D5185m	995	859	918	745
Zinc	ppm	ASTM D5185m	1180	1226	1180	990
Sulfur	ppm	ASTM D5185m	2600	2823	3155	2651
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	12	12	5
Sodium	ppm	ASTM D5185m	>400	1	5	3
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	17.4	20.2	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.8	37.1	30.5
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.7	43.7	28.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.6	5.5	6.3



# **OIL ANALYSIS REPORT**

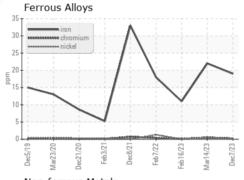


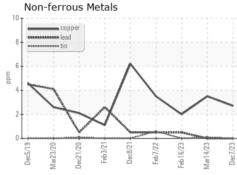


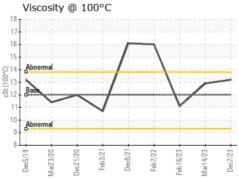
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

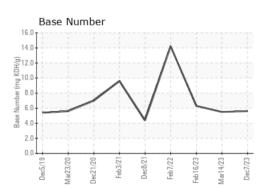
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	13.2	12.9	11.1

## **GRAPHS**













Laboratory Sample No. Lab Number

: PCA0091608 : 06040247 Unique Number : 10795476

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

ICSB370 - Alton 4525 North Alby Road

Godfrey, IL US 62035 Contact: Chad Ingold c.ingold@illinois-central.com

T: (618)466-5400