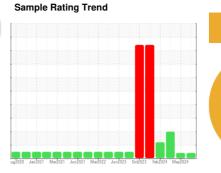


OIL ANALYSIS REPORT

(26831XA) 528006

Diesel Engine

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





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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

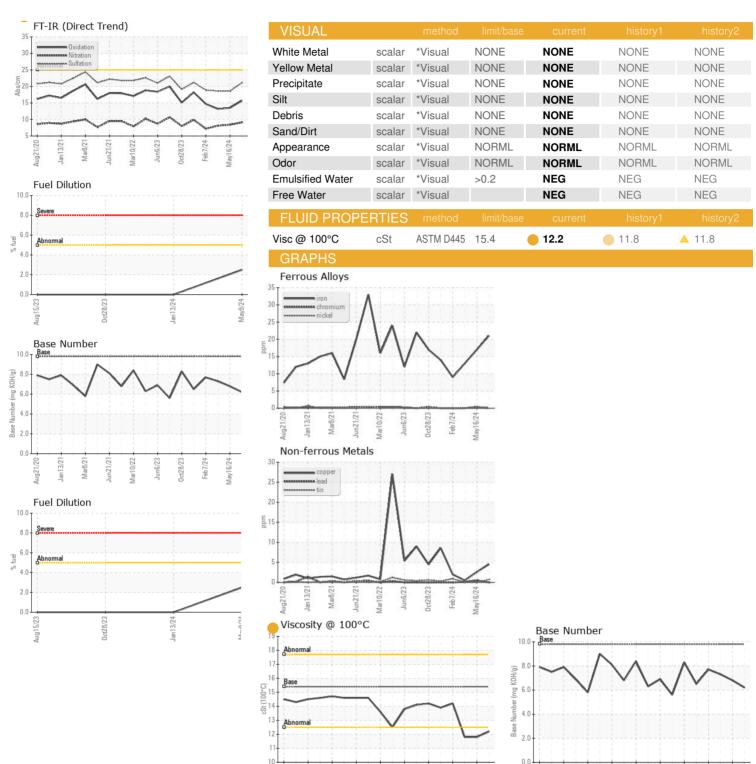
Fluid Condition

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

GAL) wg2020 Jan2021 Mag2021 Jun2021 Mag2022 Jun2023 Oct2023 Feb2024 Mag2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119275	GFL0070958	GFL0058106
Sample Date		Client Info		15 Jun 2024	16 May 2024	09 May 2024
Machine Age	hrs	Client Info		14902	14684	14640
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	21	17	13
Chromium	ppm	ASTM D5185m	>20	0	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	4	3	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	28	62	67
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	30	28	26
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	785	754	709
Calcium	ppm	ASTM D5185m	1070	1428	1473	1354
Phosphorus	ppm	ASTM D5185m	1150	902	860	787
Zinc	ppm	ASTM D5185m	1270	1016	982	895
Sulfur	ppm	ASTM D5185m	2060	3642	3733	3399
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	7	7
Sodium	ppm	ASTM D5185m		6	4	3
Potassium	ppm	ASTM D5185m	>20	15	11	11
Fuel	%	ASTM D3524	>5	<1.0	<1.0	<u>▲</u> 2.5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	18.6	18.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	13.5	13.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.2	6.8	7.3
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OIL ANALYSIS REPORT







Laboratory Sample No.

: GFL0119275 Lab Number : 06213284 Unique Number : 11086148

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024 **Tested**

Diagnosed

: 19 Jun 2024 : 20 Jun 2024 - Sean Felton

11800 Lewis Road Chester, VA US 23831 Contact: Jimmy Mayes

GFL Environmental - 654 - Richmond Hauling

Test Package : FLEET (Additional Tests: FuelDilution) Certificate 12367 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)

Submitted By: TECHNICIAN ACCOUNT

T:

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