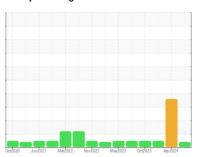


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 727012-518

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

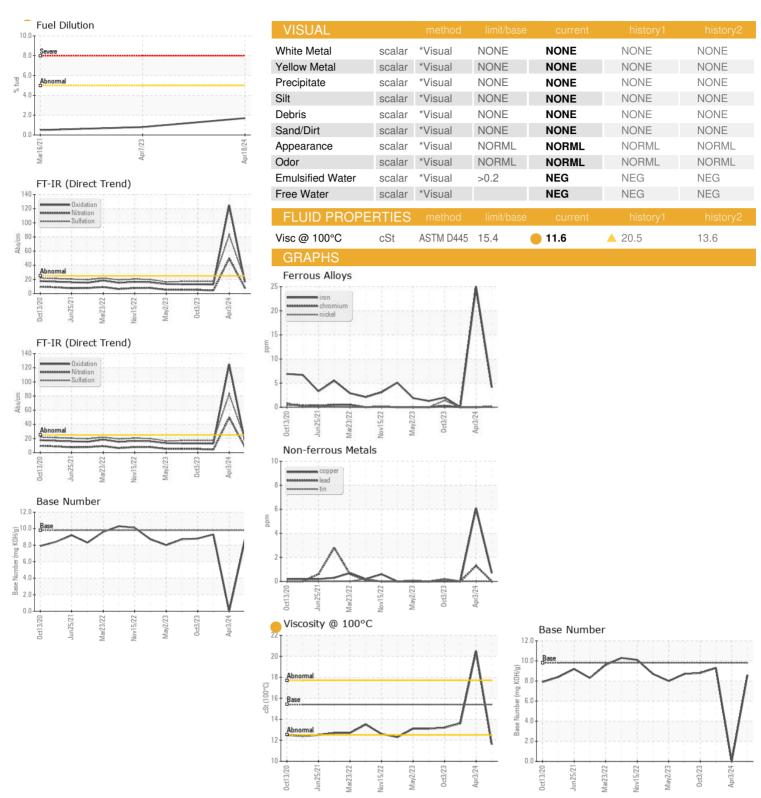
Fluid Condition

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

.TR)		0ct2020 Ju	ın2021 Mar2022 Nov	2022 May2023 Oct2023	Apr2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0119059	GFL0104892	GFL0077784
Sample Date		Client Info		18 Apr 2024	03 Apr 2024	30 Oct 2023
Machine Age	mls	Client Info		164175	373688	20786
Oil Age	mls	Client Info		164175	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ATTENTION	SEVERE	NORMAL
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	4	25	0
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	<1
Lead	ppm	ASTM D5185m	>40	0	1	0
Copper	ppm	ASTM D5185m	>330	<1	6	0
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	0	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	55	56
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	956	924	874
Calcium	ppm	ASTM D5185m	1070	1138	1084	982
Phosphorus	ppm	ASTM D5185m	1150	1067	955	1006
Zinc	ppm	ASTM D5185m	1270	1272	1213	1180
Sulfur	ppm	ASTM D5185m	2060	3437	3022	3018
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	1	4
Sodium	ppm	ASTM D5185m		4	<1	0
Potassium	ppm	ASTM D5185m	>20	16	0	<1
Fuel	%	ASTM D3524	>5	1.7	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	8.3	0
Nitration	Abs/cm	*ASTM D7624	>20	7.9	49.6	4.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	82.8	17.0
FLUID DEGRAE	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	125.0	12.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	<u> </u>	9.3
()	0 - 0					



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06158931 Unique Number : 10994354

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0119059

Received **Tested** Diagnosed

: 24 Apr 2024

: 26 Apr 2024 : 26 Apr 2024 - Sean Felton Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

US 23181 Contact: Jason Smith jasonsmith@gflenv.com T: (804)843-9288

West Point, VA

7825 Parham Landing Road

GFL Environmental - 650 - West Point Hauling

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)