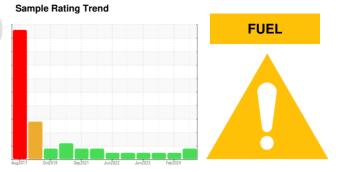


OIL ANALYSIS REPORT



8129 Diesel Engine

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



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

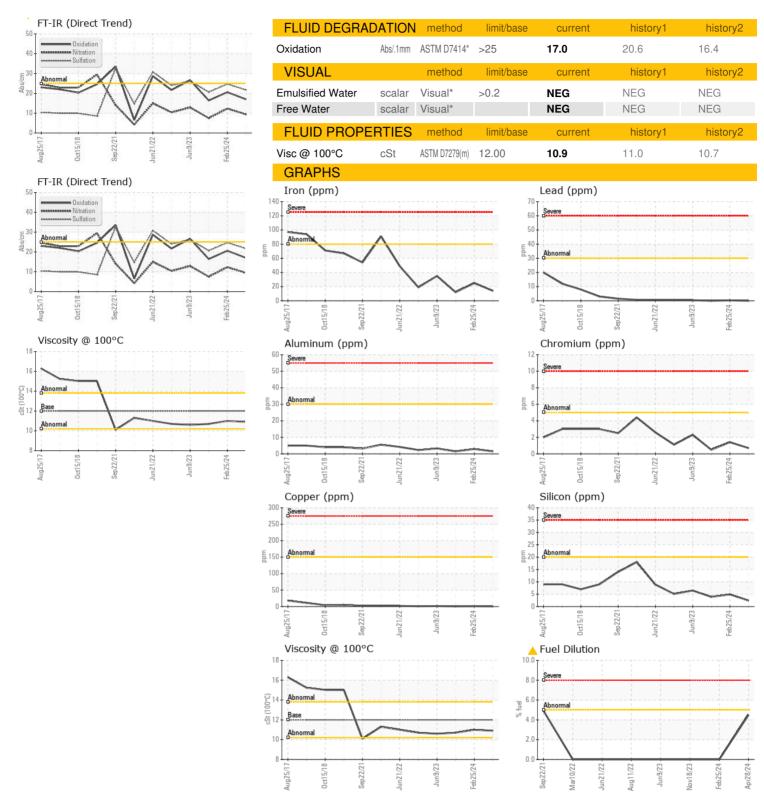
Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118967	GFL0102662	GFL0097631
Sample Date		Client Info		28 Apr 2024	25 Feb 2024	18 Nov 2023
Machine Age	hrs	Client Info		17140	16964	16452
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				MARGINAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	14	25	12
Chromium	ppm	ASTM D5185(m)	>5	<1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	2	3	2
Lead	ppm	ASTM D5185(m)	>30	0	<1	0
Copper	ppm	ASTM D5185(m)	>150	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	2	2	3
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	56	55	55
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	898	873	879
Calcium	ppm	ASTM D5185(m)	1050	978	963	961
Phosphorus	ppm	ASTM D5185(m)	995	913	906	924
Zinc	ppm	ASTM D5185(m)	1180	1096	1071	1085
Sulfur	ppm	ASTM D5185(m)	2600	2303	2331	2358
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	2	5	4
Sodium	ppm	ASTM D5185(m)		17	27	11
Potassium	ppm	ASTM D5185(m)	>20	<1	1	0
Fuel	%	ASTM D7593*	>5	4.5	<1.0	<1.0
		method	limit/base	current	history1	history2
INFRA-RED					,	•
INFRA-RED Soot %	%	ASTM D7844*	>3	1.2	2.1	0.7
	% Abs/cm		>3			



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No.

Lab Number : 02633078 Unique Number : 5774231

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW : GFL0118967 Received : 03 May 2024 **Tested** : 07 May 2024

Diagnosed : 07 May 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: Brian Gagne

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Edmonton, AB

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