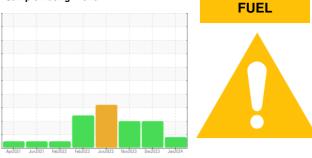


OIL ANALYSIS REPORT

Sample Rating Trend



Component **Diesel Engine** Fluid

Machine Id

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

		,		Jun2021 Feb2022 Feb202	23 Jun2023 Nov2023 Dec2023	Jan2024	
DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		GFL0108856	GFL0105763	GFL0101486
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to	Sample Date		Client Info		17 Jan 2024	21 Dec 2023	30 Nov 2023
	Machine Age	hrs	Client Info		10206	10078	19926
	Oil Age	hrs	Client Info		0	19893	19893
monitor.	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Wear All component wear rates are normal.	Sample Status				MARGINAL	SEVERE	SEVERE
Contamination	CONTAMINATI	ON	method	limit/base	current	history1	history2
Light fuel dilution occurring. No other contaminants were detected in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition	WEAR METALS	S	method	limit/base	current	history1	history2
alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Iron	ppm	ASTM D5185m	>90	59	58	39
	Chromium	ppm	ASTM D5185m	>20	4	3	2
	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	3	2
	Lead	ppm		>40	1	1	<1
	Copper	ppm	ASTM D5185m	>330	3	3	9
	Tin	ppm	ASTM D5185m		<1	<1	<1
	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	0	2	<1
	Barium	ppm	ASTM D5185m	0	0	<1	2
	Molybdenum	ppm	ASTM D5185m	60	50	55	53
	Manganese	ppm	ASTM D5185m	0	1	1	0
	Magnesium	ppm	ASTM D5185m	1010	791	873	794
	Calcium	ppm	ASTM D5185m	1070	872	997	953
	Phosphorus	ppm	ASTM D5185m	1150	892	1011	858
	Zinc	ppm	ASTM D5185m		1046	1183	1061
	Sulfur	ppm	ASTM D5185m		2348	2643	3565
	CONTAMINAN	TS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	10	11	8
	Sodium	ppm	ASTM D5185m		5	8	4
	Potassium	ppm	ASTM D5185m	>20	0	<1	1
	Fuel	%	ASTM D3524	>3.0	<u> </u>	8.3	8.3
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>6	1.4	1.3	1.1
	Nitration	Abs/cm	*ASTM D7624		19.1	18.1	15.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	30.9	29.8	26.5
	FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
	Oxidation	Abs/1mm	*ASTM D7414	>25	40.6	38.8	30.9
	Onluation	AU3/.111111				00.0	00.0
	Base Number (BN)				4.5	4.5	5.7

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OIL ANALYSIS REPORT

