

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 381M Component **Diesel Engine**

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

	`		Mar2022	Oct2022 Sep202	3 Dec2023 Dec2023	Jan2024	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0109967	GFL0104149	GFL0104387
Resample at the next service interval to monitor.	Sample Date		Client Info		23 Jan 2024	14 Dec 2023	01 Dec 2023
Wear	Machine Age	hrs	Client Info		11840	11524	11448
All component wear rates are normal.	Oil Age	hrs	Client Info		600	76	11448
Contamination	Oil Changed		Client Info		Changed	N/A	Changed
There is no indication of any contamination in the	Sample Status				NORMAL	NORMAL	NORMAL
oil.	CONTAMINAT	ION	method	limit/base	current	history1	history2
Fluid Condition	Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
oil is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	4	5	12
	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m		<1	1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	7
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	3	2
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	12	<1
	Tin	ppm	ASTM D5185m		<1	<1	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	2	3	172
	Barium	ppm	ASTM D5185m	0	<1	0	0
	Molybdenum	ppm	ASTM D5185m	60	55	54	90
	Manganese	ppm	ASTM D5185m	0	<1	<1	0
	Magnesium	ppm	ASTM D5185m	1010	867	884	712
	Calcium	ppm	ASTM D5185m	1070	942	1000	1418
	Phosphorus	ppm	ASTM D5185m		987	978	741
	Zinc	ppm	ASTM D5185m	1270	1173	1216	871
	Sulfur	ppm	ASTM D5185m	2060	2868	3063	3661
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	5	12
	Sodium	ppm	ASTM D5185m		3	5	0
	Potassium	ppm	ASTM D5185m	>20	2	2	2
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.4	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	5.6	6.7	5.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	18.3	17.9
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.9	13.7
	Base Number (BN)				8.9	8.8	8.7
		0 0					

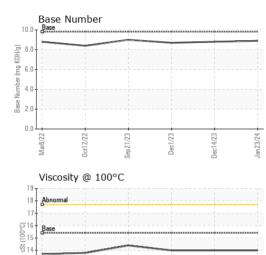


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Mar8/22

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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
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	14.0
GRAPHS						

