

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

787M Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

		method	iiiiii/base	current	TIIStOLA	nistoryz
Sample Number		Client Info		GFL0122357	GFL0117668	GFL0108809
Sample Date		Client Info		11 Jun 2024	09 Apr 2024	03 Jan 2024
Machine Age	hrs	Client Info		18138	17642	16979
Oil Age	hrs	Client Info		16979	16979	16632
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
	0	mathad	limit/base	ourropt	historyd	biotory ()
	5	methoa	iimii/base	current	nistory i	nistory2
Iron	ppm	ASTM D5185m	>100	18	42	38
Chromium	ppm	ASTM D5185m	>20	2	5	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	8	6
Lead	ppm	ASTM D5185m	>40	1	2	<1
Copper	ppm	ASTM D5185m	>330	0	0	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	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	13	100	<1
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	73	128	66
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	958	904	1113
Calcium	mag	ASTM D5185m	1070	1030	981	1241
Phosphorus	ppm	ASTM D5185m	1150	1173	1041	1208
Zinc	ppm	ASTM D5185m	1270	1286	1258	1487
Sulfur	mag	ASTM D5185m	2060	3562	3444	3364
					-	
CONTAMINAN	15	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	18	▲ 47	4
Sodium	ppm	ASTM D5185m		 559	<u> </u>	4
Potassium	ppm	ASTM D5185m	>20	15	42	9
Glycol	%	*ASTM D2982		NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	1.2	1.2
Nitration	Abs/cm	*ASTM D7624	>20	8.9	15.7	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	24.7	24.9
FLUID DEGRAD	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	17.9	21.6
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	9.5	16.5	7.3
		DIST. BLOOD		0.0		



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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	13.1	15.3	14.4





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