

OIL ANALYSIS REPORT

Plymouth & Brockton [11446] 11446

Component **Diesel Engine** Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

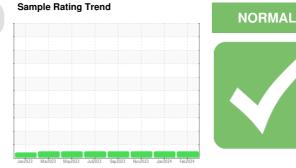
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

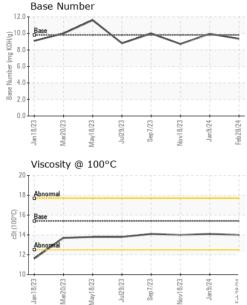




SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109871	PCA0104727	PCA0098616
Sample Date		Client Info		28 Feb 2024	09 Jan 2024	18 Nov 2023
Machine Age	mls	Client Info		95583	85485	72888
Oil Age	mls	Client Info		24000	12000	24000
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
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	>90	27	12	21
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	2
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	1	0
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	0	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	57	61
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	924	888	1001
Calcium	ppm	ASTM D5185m	1070	1079	1019	1245
Phosphorus	ppm	ASTM D5185m	1150	980	996	1137
Zinc	ppm	ASTM D5185m	1270	1148	1202	1515
Sulfur	ppm	ASTM D5185m	2060	3233	2883	3306
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	2	2
Sodium	ppm	ASTM D5185m		2	0	<1
Potassium						
	ppm	ASTM D5185m	>20	0	0	0
INFRA-RED	ppm	ASTM D5185m method	>20 limit/base	0 current	0 history1	0 history2
INFRA-RED Soot %	ppm %					
		method	limit/base	current	history1	history2
Soot %	%	method *ASTM D7844	limit/base >6	current 2.6	history1 1.4	history2 1.8
Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624	limit/base >6 >20	current 2.6 10.5	history1 1.4 7.1	history2 1.8 9.8
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >6 >20 >30	current 2.6 10.5 23.2	history1 1.4 7.1 18.6	history2 1.8 9.8 22.1
Soot % Nitration Sulfation FLUID DEGRAE	% Abs/cm Abs/.1mm OATION	method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	limit/base >6 >20 >30 limit/base	current 2.6 10.5 23.2 current	history1 1.4 7.1 18.6 history1	history2 1.8 9.8 22.1 history2



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Certificate L2367

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