

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 925053 Component

Diesel Engine

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

	RON SHP 15W40 (002022 08	LOLD TOLOLO Maleo			
	SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
	Sample Number		Client Info		GFL0069205	GFL0069151	GFL006875
t this time. monitor.	Sample Date		Client Info		07 Sep 2023	24 Aug 2023	10 Jul 2023
	Machine Age	hrs	Client Info		18977	18865	18571
	Oil Age	hrs	Client Info		112	545	251
	Oil Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				NORMAL	ABNORMAL	NORMAL
taminants	CONTAMINA	ΓION	method	limit/base	current	history1	history2
	Glycol		WC Method		NEG	NEG	NEG
le 1 of the	WEAR METAI	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	3	7	4
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	1	3	2
	Lead	ppm	ASTM D5185m	>40	<1	<1	<1
	Copper	ppm	ASTM D5185m	>330	<1	0	<1
	Tin	ppm	ASTM D5185m	>15	<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	5	4	8
	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	60	59	62	61
	Manganese	ppm	ASTM D5185m	0	1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	1014	932	969
	Calcium	ppm	ASTM D5185m	1070	1085	1043	1075
	Phosphorus	ppm	ASTM D5185m	1150	1074	999	1030
	Zinc	ppm	ASTM D5185m	1270	1361	1241	1287
	Sulfur	ppm	ASTM D5185m	2060	4064	3572	3802
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	4	5	5
	Sodium	ppm	ASTM D5185m		3	4	2
	Potassium	ppm	ASTM D5185m	>20	2	1	1
	Fuel	%	ASTM D3524	>3.0	2.1	4.6	<1.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.1	0.3	0.2
		Abs/cm	*ASTM D7624		5.3	8.5	7.5
	Nitration						
	Nitration Sulfation	Abs/.1mm	*ASTM D7415	>30	17.1	18.3	18.1
		Abs/.1mm		>30 limit/base		18.3 history1	
	Sulfation	Abs/.1mm		limit/base			18.1 history2 13.7

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. No other contaminants were detected 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.



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