

OIL ANALYSIS REPORT

G.LOPES CONSTRUCTION INC 323

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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.

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SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109752	PCA0078205	PCA0066681
Sample Date		Client Info		11 Dec 2023	25 Oct 2022	19 Jan 2022
Machine Age	hrs	Client Info		16774	16774	16774
Oil Age	hrs	Client Info		16774	16774	16//4
Oli Changed		Client Info				
Sample Status				NORMAL	NORMAL	NONMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	7	12	19
Chromium	ppm	ASTM D5185m	>20	2	4	6
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	7
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	1	<1	2
Antimony	ppm	ASTM D5185m	>15	U	0	< 1
Vanadium	ppm	ASTM D5185m				0
Cadmium	ppm	ASTM D5185m		0	0	<1
	ррпп	No fill Do fooli		Ū		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	4	51
Barium	ppm	ASTM D5185m	0	0	0	0
Manganaga	ppm	ASTM D5185m	60	58	52	40
Manganese	ppm	ASTM D5185m	1010	960	<1 013	516
Calcium	ppm	ASTM D5185m	1070	1039	1132	1400
Phosphorus	mag	ASTM D5185m	1150	1064	952	716
Zinc	ppm	ASTM D5185m	1270	1259	1226	877
Sulfur	ppm	ASTM D5185m	2060	3266	3402	2348
CONTAMINAN	TS	method	limit/base	current	historv1	historv2
Silicon	nom	ASTM D5185m	>25	6	7	14
Sodium	ppm	ASTM D5185m	~	3	0	3
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
		method	limit/base	current.	history1	history2
Soot %	0/	*ASTM D7044			0.2	0.2
Nitration	70 Abs/cm	*ASTM D7624	>0	5.4	6.9	9.2
Sulfation	Abs/.1mm	*ASTM D7024	>30	17.5	19.8	23.3
			limit/less		bistored	
FLUID DEGRAL		method	iimit/base	current	nistory T	nistory2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	15.5	23.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.47	9.46	9.87

Sample Rating Trend

NORMAL



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Certificate L2367