

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

G.LOPES CONSTRUCTION II

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GA

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

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.

I INC./On-F	Road		w2020 Mw2021 Sep	2021 Jun2022 Jun2023	kup2023	
SAMPLE INFOR	10ITAM	\ method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109551	PCA0098575	PCA0098523
Sample Date		Client Info		05 Dec 2023	02 Aug 2023	17 May 2023
Machine Age	mls	Client Info		292000	272000	252000
Oil Age	mls	Client Info		172434	163734	172434
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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

Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>65	24	18	30
Chromium	ppm	ASTM D5185m	>5	2	2	3
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>5	<1	1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>35	16	10	17
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>180	5	5	15
Tin	ppm	ASTM D5185m	>8	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES						biotom/0

ADDITIVES		method				history2
Boron	ppm	ASTM D5185m	0	8	1	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	61	63
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	908	983	1007
Calcium	ppm	ASTM D5185m	1070	1088	1086	1181
Phosphorus	ppm	ASTM D5185m	1150	1030	993	1025
Zinc	ppm	ASTM D5185m	1270	1284	1253	1281
Sulfur	ppm	ASTM D5185m	2060	3035	3049	3148
CONTAMINA	ITC	mothod	limit/baco	current	hictory1	hictory?

CONTAMINAN	ITS	method				history2
Silicon	ppm	ASTM D5185m	>15	7	6	6
Sodium	ppm	ASTM D5185m		2	4	3
Potassium	ppm	ASTM D5185m	>20	7	6	4

INFRA-RED		method				history2
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.8
Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.3	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	21.0	21.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	16.8	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.93	8.67	10.13



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Certificate L2367

Laboratory Sample No.

Lab Number

Unique Number Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 07 Dec 2023 : PCA0109551 Received : 08 Dec 2023 : 06027970 Diagnosed : Wes Davis : 10777761 Diagnostician

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

G LOPES CONSTRUCTION

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