

OIL ANALYSIS REPORT

SAMPLE INFORMATION

NORMAL



G.LOPES CONSTRUCTION INC./On-Road

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

Fuel content negligible. 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.

Mar2020	Jan 2022	Aug2023

Sample Number		Client Info		PCA0098482	PCA0059522	PCA80429003
Sample Date		Client Info		15 Aug 2023	04 Jan 2022	03 Mar 2020
Machine Age	mls	Client Info		87500	83000	79000
Oil Age	mls	Client Info		87500	83000	
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	0.0
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	10	13	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	3
Lead	ppm	ASTM D5185m	>40	<1	<1	1
Copper	ppm	ASTM D5185m	>330	0	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	54	52
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	45	42
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	943	612	469
Calcium	ppm	ASTM D5185m	1070	1172	1564	1577
Phosphorus	ppm	ASTM D5185m	1150	1053	850	763
Zinc	ppm	ASTM D5185m	1270	1250	959	768
Sulfur	ppm	ASTM D5185m	2060	3787	2536	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	5	4
Sodium	ppm	ASTM D5185m		0	2	4
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Fuel	%	ASTM D3524	>5	0.4	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.65
Nitration	Abs/cm	*ASTM D7624	>20	6.1	7.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	21	
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	18.5	6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.62	9.16	

Submitted By: MATT MANOLI



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

: 10607378

: PCA0098482 : 05927431

Diagnosed

: 21 Aug 2023 Diagnostician : Wes Davis

Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel) 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) 565 WINTHROP ST TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

> T: F: