

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Vanadium

Cadmium

Titanium

Aluminum

ppm

ppm

ppm

ppm

ppm

ASTM D5185m >330

ASTM D5185m >15

ASTM D5185m

ASTM D5185m

Chromium

G.LOPES CONSTRUCTION INC./ON-ROAD **PU309**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



2

0

0

0

2

<1

0

0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	13	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	71	58
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	881	399	829
Calcium	ppm	ASTM D5185m	1070	1005	1761	1087
Phosphorus	ppm	ASTM D5185m	1150	964	913	969
Zinc	ppm	ASTM D5185m	1270	1222	1147	1184
Sulfur	ppm	ASTM D5185m	2060	3070	3998	3591
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	6

2 0

<1

0

Silicon	ppm	ASTM D5185m	>25	5	6	6
Sodium	ppm	ASTM D5185m		0	3	2
Potassium	ppm	ASTM D5185m	>20	0	3	1
Fuel	%	ASTM D3524	>5	<u> </u>	7 .4	9.7

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.9	10.9	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	21.7	21.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	20.3	20.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.29	4.16	8.94



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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) history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

NEG

NEG

10.0

Feb1/23 -

Feb1/23

Feb1/23

Feb1/23

/av24/23

FCIACUEN

Mav24/23

May24/23

G LOPES CONSTRUCTION

Contact: BUTCH MCGRATH

bmcgrath@glopes.com

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

NEG

NEG

9.2

Sep20/23.

EC/02um

en20/73

Sep20/23

565 WINTHROP ST

TAUNTON, MA

US 02780

an9/24

T:

F: