

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

G.LOPES CONSTRUCTION INC./On-Road

336

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10

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.

) (GAL)		Nov2020 Apr2	021 Aug2021 Nov2021 Apr2	222 Sept2222 Febt223 Sept223 Janit	024 Jun2024	
	SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
	Sample Number		Client Info		PCA0122959	PCA0109661	PCA0098550
	Sample Date		Client Info		12 Jun 2024	23 Jan 2024	05 Sep 2023
	Machine Age	mls	Client Info		212000	192000	172000
	Oil Age	mls	Client Info		93728	93728	93728
	Oil Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
	CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>100	17	15	27
	Chromium	ppm	ASTM D5185m	>20	2	1	2
	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0

						,
Iron	ppm	ASTM D5185m	>100	17	15	27
Chromium	ppm	ASTM D5185m	>20	2	1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	9	8	11
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	4	4	8
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2

ADDITIVES		method			history1	history2
Boron	ppm	ASTM D5185m	0	3	5	<1
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	63	60	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1008	957	944
Calcium	ppm	ASTM D5185m	1070	1141	1015	1116
Phosphorus	ppm	ASTM D5185m	1150	1012	1012	999
Zinc	ppm	ASTM D5185m	1270	1306	1229	1225
Sulfur	ppm	ASTM D5185m	2060	2959	2783	2802

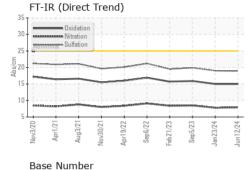
CONTAMINAN	ITS	method				history2
Silicon	ppm	ASTM D5185m	>25	5	3	4
Sodium	ppm	ASTM D5185m		3	<1	2
Potassium	ppm	ASTM D5185m	>20	8	9	13

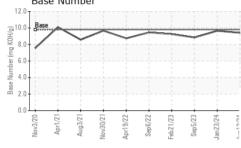
INFRA-RED		method				history2
Soot %	%	*ASTM D7844	>3	0.5	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.8	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	19.0	19.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2

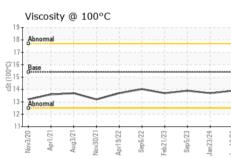
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	15.0	15.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.41	9.66	8.85



OIL ANALYSIS REPORT



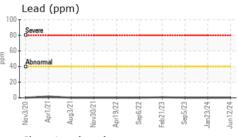


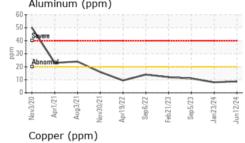


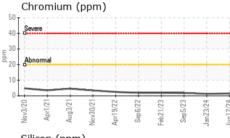
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

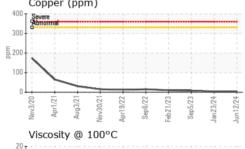
FLUID PROP	ERITES	method			riistory i	riistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.7	13.9

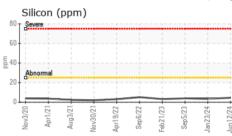
Iro	n (p	pm)							
200 - Sev	ere								
150									
100 - Abr	normal	-		-		-		-	-
50-					_				
0	21+1	21+	21+-	12	22	- 53	-23	4-	4
Nov3/20	Apr1/	Aug3/	Nov30/2	Apr19/22	Sep6/22	Feb21/23	Sep5/23	Jan 23/24	Jun12/24
Δlı	ıminı	ım (ı						7	7

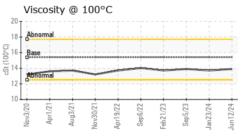


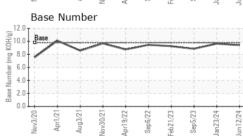
















Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06210354

: PCA0122959 Unique Number : 11083218 Test Package : MOB 2

Received : 14 Jun 2024 **Tested** : 17 Jun 2024

Diagnosed : 17 Jun 2024 - Wes Davis **G LOPES CONSTRUCTION**

565 WINTHROP ST TAUNTON, MA US 02780

Contact: BUTCH MCGRATH bmcgrath@glopes.com

Submitted By: MATT MANOLI

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)

T:

F: