

OIL ANALYSIS REPORT

NORMAL

G.LOPES CONSTRUCTION INC./ON-ROAD

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.

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.

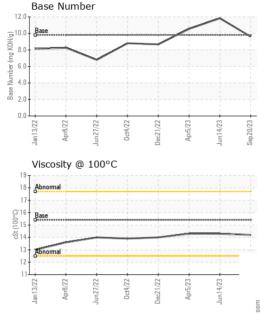
SIS REPORT	Sam	ple R	ating	Tren	d				
NC./ON-ROAD									
AL)	Jan2022	Apr2022	Jun2022	0ct2022	Dec2022	Apr2023	Jun2023	Sep2023	
SAMPLE INFORMATION	method	li	mit/ba	ase	C	curre	nt		hi

Sample Number Sample Date		Client Info		PCA0104691 20 Sep 2023	PCA0098342 14 Jun 2023	PCA0083066 05 Apr 2023
Machine Age	hrs hrs	Client Info		172000	152000 152000	132000
Oil Age Oil Changed	IIIS	Client Info		172000 N/A	N/A	132000 N/A
Sample Status		Olient inio		NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	25	19	26
Chromium	ppm	ASTM D5185m	>20	1	1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	9	6	11
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	6	9	16
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	63	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1017	1089	907
Calcium	ppm	ASTM D5185m	1070	1175	1247	1069
Phosphorus	ppm	ASTM D5185m	1150	1020	1116	922
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	1323 3458	1403 3630	1155 2630
	ppm	ASTIVI DOTOSITI	2000	3436	3630	2030
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	5
Sodium	ppm	ASTM D5185m	00	2	1	2
Potassium	ppm	ASTM D5185m	>20	23	7	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0.6
Nitration	Abs/cm	*ASTM D7624		9.4	9.3	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.8	20.2
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	18.8	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.60	11.84	10.55

Submitted By: MATT MANOLI



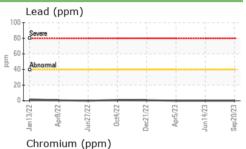
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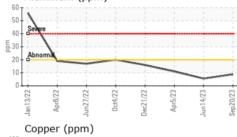


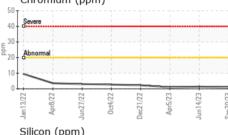
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
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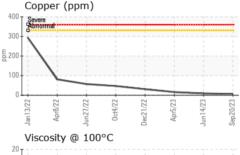
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.3	14.3
GRAPHS						

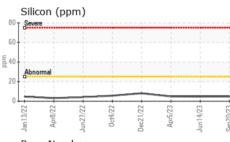
Iron	(ppn	1)					
Severe							
150							
Abnor	nal						
50							
0						_	_
Jan 13/22	Apr8/22	Jun27/22	:14/22	Dec21/22	Apr5/23	Jun14/23	Sep20/23
Jan	A	Jul	ŏ	Dec	A	hul	Sep
	ninum	ı (ppn	1)				
60							

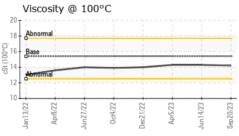


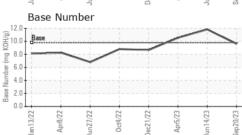
















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : MOB 2

: PCA0104691 : 05958730 : 10659943

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed Diagnostician : Wes Davis

: 22 Sep 2023 : 25 Sep 2023

US 02780 Contact: BUTCH MCGRATH

bmcgrath@glopes.com

G LOPES CONSTRUCTION

565 WINTHROP ST

T: F:

TAUNTON, MA

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)