

OIL ANALYSIS REPORT

Sample Rating Trend

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.

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.

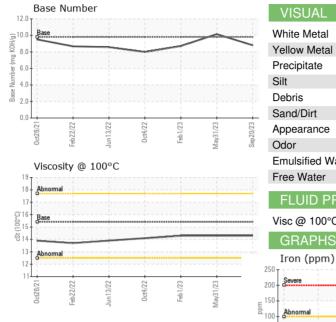
SIS REPORT	Sample nating Trend						
OIO IILI OIII							
INC./On-Road							
1110./011-11044							
AL)	0ct2021	Feb2022	Jun2022	Oct2022	Feb2023	May2023	Sep2023
•	UctzUZI	renzuzz	JUNZUZZ	UCTZUZZ	Fe0ZUZ3	Mayzuza	Sepzuzs
SAMPLE INFORMATION	method						

Sample Number		Client Info		PCA0104686	PCA0083121	PCA0090623
Sample Date		Client Info		20 Sep 2023	31 May 2023	01 Feb 2023
Machine Age	mls	Client Info		152000	132000	112000
Oil Age	mls	Client Info		152000	132000	112000
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	>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	21	21	26
Chromium	ppm	ASTM D5185m	>20	1	2	3
Nickel	ppm	ASTM D5185m	>4	0	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	12
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	6	8	9
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	60	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1039	976	921
Calcium	ppm	ASTM D5185m	1070	1194	1169	1086
Phosphorus	ppm	ASTM D5185m	1150	1044	971	974
Zinc	ppm	ASTM D5185m	1270	1361	1255	1232
Sulfur	ppm	ASTM D5185m	2060	3359	3108	2702
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	6
Sodium	ppm	ASTM D5185m		3	2	<1
Potassium	ppm	ASTM D5185m	>20	11	6	21
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	8.0	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.5	10.9	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8	21.5	21.1
FLUID DEGRAD	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	17.6	17.3
5 11 1 (511)		AOTA DOOG	0.0		10.15	0.74
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.81	10.15	8.71

Submitted By: MATT MANOLI



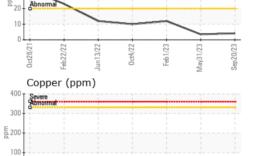
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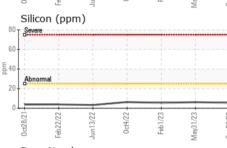


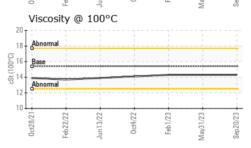
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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 PROPE	RTIES	method	limit/hase	current	history1	history2

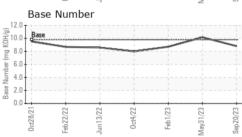
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.3	14.3

Iron (ppm)	Lead (ppm)
200 - Severe	Severe
150 Abnormal	E 60 Abnormal
50	40
Oct28/21+1 Feb 22/22 Jun 13/22 Cot4/22 Feb 1/23 Com 20/23	0ct28/21
Aluminum (ppm)	Chromium (ppm)
40 - Severe	40 Severe
Abnormal Abnormal	E 30 Abnormal













Certificate L2367

Laboratory Sample No. Test Package : MOB 2

Lab Number **Unique Number**

: PCA0104686 : 05958728 : 10659941

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

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

: 22 Sep 2023 : 25 Sep 2023

Diagnostician : Wes Davis

Contact: BUTCH MCGRATH bmcgrath@glopes.com

G LOPES CONSTRUCTION

T: F:

565 WINTHROP ST

TAUNTON, MA

US 02780

* - 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)