

OIL ANALYSIS REPORT

G.LOPES CONSTRUCTION INC./On-Road **PU292**

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

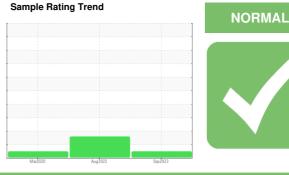
All component wear rates are normal.

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.



GAL)		Ma	2020	Aug2022 Sep202	23	
SAMPLE INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0098549	PCA0078336	PCA04423040
Sample Date		Client Info		05 Sep 2023	17 Aug 2022	26 Mar 2020
Machine Age	hrs	Client Info		35000	26263	7000
Oil Age	hrs	Client Info		26263	26263	
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	0.0
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	52	1 16	13
Chromium	ppm	ASTM D5185m	>20	2	4	1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	1	1
Aluminum	ppm	ASTM D5185m	>25	8	15	4
Lead	ppm	ASTM D5185m	>40	3	5	0
Copper	ppm	ASTM D5185m	>330	40	2 76	1
Tin	ppm	ASTM D5185m	>15	1	2	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	3	27	3
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	61	36	4

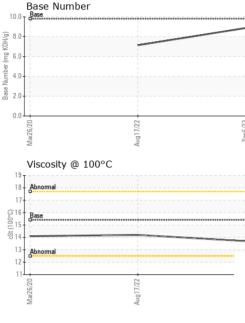
Boron	ppm	ASTM D5185m	0	3	27	3
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	61	36	4
Manganese	ppm	ASTM D5185m	0	<1	2	
Magnesium	ppm	ASTM D5185m	1010	934	569	53
Calcium	ppm	ASTM D5185m	1070	1185	1551	1733
Phosphorus	ppm	ASTM D5185m	1150	1001	780	811
Zinc	ppm	ASTM D5185m	1270	1254	915	806
Sulfur	ppm	ASTM D5185m	2060	2980	2342	
CONTAMINANTS		mathad	limit/booo	ourropt	biotoryd	biotom/0

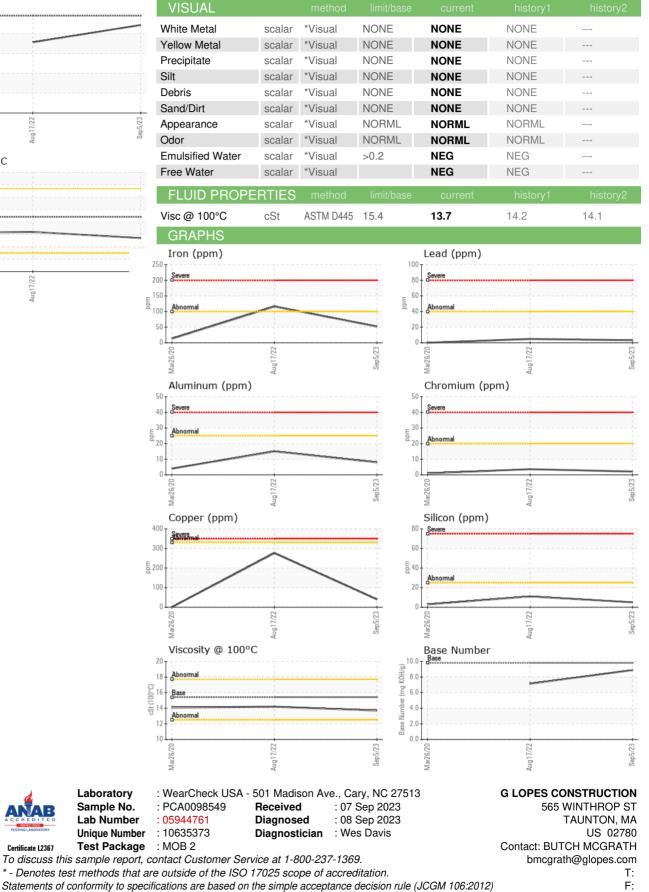
CONTAININAN	113	method	iiiiii/base	current	nistory i	TIIStOryz
Silicon	ppm	ASTM D5185m	>25	5	11	3
Sodium	ppm	ASTM D5185m		2	4	5
Potassium	ppm	ASTM D5185m	>20	1	0	0

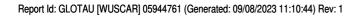
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.25
Nitration	Abs/cm	*ASTM D7624	>20	9.4	12.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	24.3	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	23.4	
Base Number (BN)	ma KOH/a	ASTM D2896	9.8	8.88	7.14	



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Certificate L2367

Submitted By: MATT MANOLI