

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

G.LOPES CONSTRUCTION INC./On-Road

332

Component **Diesel Engine**

Fluid

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

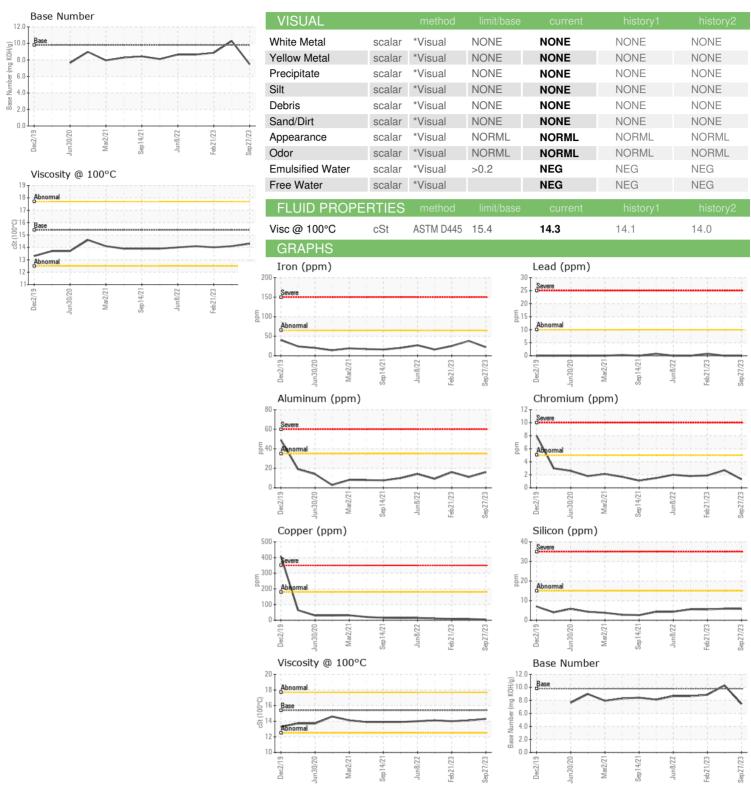
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Sample Number		Client Info		PCA0104761	PCA0090745	PCA0083146
Sample Date		Client Info		27 Sep 2023	03 Jul 2023	21 Feb 2023
Machine Age	mls	Client Info		272000	252000	232000
Oil Age	mls	Client Info		152000	152000	152000
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	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2						
Iron	ppm	ASTM D5185m	>65	22	38	25
Chromium	ppm	ASTM D5185m	>5	1	3	2
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>5	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>35	16	11	16
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>180	5	8	9
Tin	ppm	ASTM D5185m	>8	<1	1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	3	3
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	64	63	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1028	941	957
Calcium	ppm	ASTM D5185m	1070	1158	1111	1091
Phosphorus	ppm	ASTM D5185m	1150	1070	1021	970
Zinc	ppm	ASTM D5185m	1270	1347	1257	1243
Sulfur	ppm	ASTM D5185m	2060	3014	3040	3245
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	6	6	6
Sodium	ppm	ASTM D5185m		2	2	3
Potassium	ppm	ASTM D5185m	>20	4	6	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.9	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	21.0	21.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	17.9	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.47	10.29	8.86
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Certificate L2367

Laboratory

Sample No. Lab Number

Unique Number Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 29 Sep 2023 : PCA0104761 Received : 02 Oct 2023 : 05965543 Diagnosed : Wes Davis Diagnostician

: 10672094

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)

G LOPES CONSTRUCTION

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