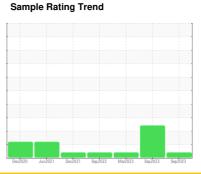


OIL ANALYSIS REPORT

G.LOPES CONSTRUCTION INC./Off-Road **PS 36**

Component **Diesel Engine**

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





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

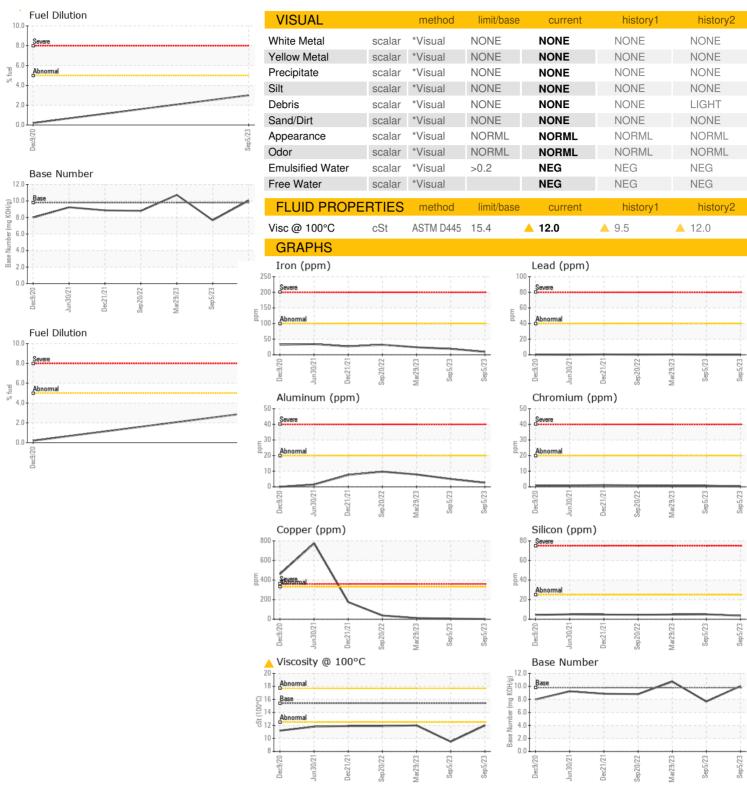
▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

		562020	SUNE DECEDEN	Sep2022 Mar2023 Sep2023	Sep2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104661	PCA0104661	PCA0083075
Sample Date		Client Info		05 Sep 2023	05 Sep 2023	29 Mar 2023
Machine Age	hrs	Client Info		2007	2007	1719
Oil Age	hrs	Client Info		1023	1023	1037
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ATTENTION
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	19	9	24
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	5	3	8
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	6	2	12
Tin	ppm	ASTM D5185m	>15	<1	0	0
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	4	10	5
Barium	ppm	ASTM D5185m	0	2	2	0
Molybdenum	ppm	ASTM D5185m	60	64	<u>^</u> 2	64
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	970	<u>^</u> 28	1089
Calcium	ppm	ASTM D5185m	1070	1135	<u>A</u> 2871	1230
Phosphorus	ppm	ASTM D5185m	1150	1066	1027	1115
Zinc	ppm	ASTM D5185m	1270	1271	1221	1451
Sulfur	ppm	ASTM D5185m	2060	3248	4628	3688
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		5	4	5
Sodium	ppm	ASTM D5185m		<1	1	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Fuel	%	ASTM D3524	>5	<1.0	△ 3.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.6	3.4	7.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	23.7	18.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	11.6	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.04	7.68	10.73
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OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05944762 : 10635374

: PCA0104661

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Sep 2023 Diagnosed

: 11 Sep 2023 Diagnostician : Doug Bogart

Test Package : MOB 2 (Additional Tests: FuelDilution) 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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