

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



G.LOPES CONSTRUCTION INC./Off-Road

Machine L

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

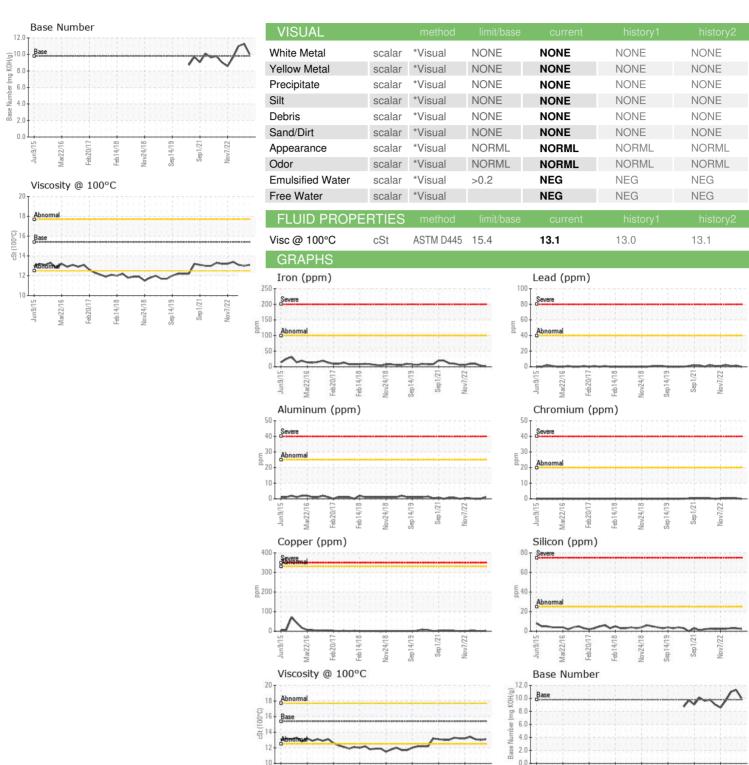
Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109722	PCA0098623	PCA0098360
Sample Date		Client Info		05 Dec 2023	04 Oct 2023	28 Jun 2023
Machine Age	hrs	Client Info		36889	36889	36477
Oil Age	hrs	Client Info		33918	34330	34299
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
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	2	3	10
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	0	0
Lead	ppm	ASTM D5185m	>40	0	1	1
Copper	ppm	ASTM D5185m	>330	2	1	1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	5	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	69	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	933	1083	1014
Calcium	ppm	ASTM D5185m	1070	1012	1163	1152
Phosphorus	ppm	ASTM D5185m	1150	1041	1182	1113
Zinc	ppm	ASTM D5185m	1270	1256	1449	1354
Sulfur	ppm	ASTM D5185m	2060	3219	3846	4042
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	3	3
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	1	2	0
INFRA-RED		method	limit/base	current	history1	history2
	0/	*ASTM D7844	>3	0.1	0.2	0.2
Soot %	%	AO I WI D I OTT		•		
Soot % Nitration	% Abs/cm	*ASTM D7624		5.7	6.4	6.8
						6.8 19.3
Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	5.7	6.4	
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30	5.7 18.0	6.4 18.8	19.3



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Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package

: 06027963

: PCA0109722 : 10777754 : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Dec 2023 : 08 Dec 2023 Diagnosed

: Wes Davis Diagnostician

Nov7/22

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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