

OIL ANALYSIS REPORT

Sample Rating Trend

Novido21 Marčo22 Mayčo22 Sapčo22 Novido22 Fabčo23 Apričo23 Sapčo23 Sapčo23

NORMAL



N.E.R./On-Road

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

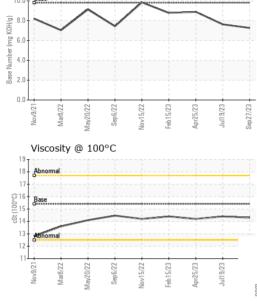
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104694	PCA0098428	PCA0083226
Sample Date		Client Info		27 Sep 2023	19 Jul 2023	25 Apr 2023
Machine Age	hrs	Client Info		191000	172000	152000
Oil Age	hrs	Client Info		191000	172000	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	>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	19	21	26
Chromium	ppm	ASTM D5185m		<1	1	2
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	- 1	<1	1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	11	4	4
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m		6	8	9
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	•••	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	2	0
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	65	67	63
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1034	991	934
Calcium	ppm	ASTM D5185m	1070	1169	1189	1089
Phosphorus	ppm	ASTM D5185m	1150	1071	1067	1000
Zinc	ppm	ASTM D5185m	1270	1345	1324	1254
Sulfur	ppm	ASTM D5185m	2060	2846	3011	2772
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	4
Sodium	ppm	ASTM D5185m		1	0	2
Potassium	ppm	ASTM D5185m	>20	6	4	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.7	0.7
			00	0.7	100	10.1
Nitration	Abs/cm	*ASTM D7624	>20	9.7	10.3	10.1
Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	21.6	22.5	10.1 20.8
	Abs/.1mm					
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6 current	22.5	20.8
Sulfation FLUID DEGRAE	Abs/.1mm	*ASTM D7415 method	>30 limit/base >25	21.6	22.5 history1	20.8 history2



Base Number

OIL ANALYSIS REPORT

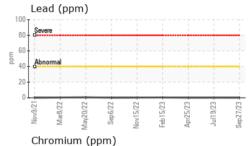


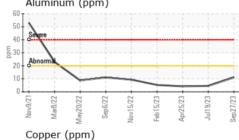
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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/base	current	history1	history2

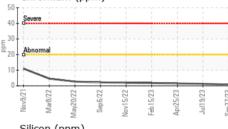
1 2012 1 1101						
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.4	14.2

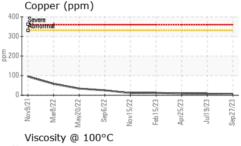
Iro 250	n (pp	m)						
200 - Sev	ere							
150								
100 - Abn	ormal							-
50								
0								=
Nov9/2	Mar8/22	May20/22	Sep6/22	Nov15/22	Feb15/23	Apr25/23	Jul19/23	Sep27/23
Δlı	ıminu		nm)					

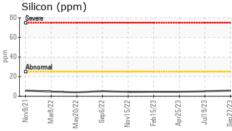
GRAPHS

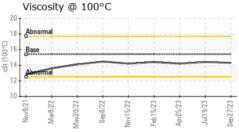


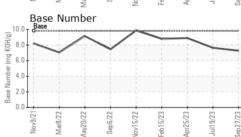














Certificate L2367

Laboratory Sample No. Lab Number Test Package : MOB 2

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0104694 : 05965548 : 10672099

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

Received Diagnosed

: 29 Sep 2023 : 02 Oct 2023 Diagnostician : Wes Davis

TAUNTON, MA US 02780 Contact: BUTCH MCGRATH bmcgrath@glopes.com T:

G LOPES CONSTRUCTION

565 WINTHROP ST

* - 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)

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