

OIL ANALYSIS REPORT









Machine Id 625M **Diesel Engine**

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

DIAGNOSIS

Recommendation

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 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		GFL0115168	GFL0115115	GFL0106691
Sample Date		Client Info		28 Mar 2024	26 Mar 2024	25 Jan 2024
Machine Age	hrs	Client Info		18939	18925	18784
Oil Age	hrs	Client Info		14	0	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>120	39	15	17
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	<1	<u>8</u>
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	4
Lead	ppm	ASTM D5185m	>40	0	1	2
Copper	ppm	ASTM D5185m	>330	18	0	2
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	53	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	889	921	943
Calcium	ppm	ASTM D5185m	1070	1056	991	1061
Phosphorus	ppm	ASTM D5185m	1150	977	1013	987
Zinc	ppm	ASTM D5185m	1270	1203	1236	1263
Sulfur	ppm	ASTM D5185m	2060	3469	3346	2614
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	8	5
Sodium	ppm	ASTM D5185m		3	2	5
Potassium	ppm	ASTM D5185m	>20	<1	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	6.0	8.6	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	20.0	22.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	16.8	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	8.6	5.3



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Certificate 12367

Laboratory Sample No.

: GFL0115168 Lab Number : 06136796 Unique Number : 10956261

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

Received **Tested** Diagnosed

: 02 Apr 2024 : 04 Apr 2024

: 04 Apr 2024 - Sean Felton

GFL Environmental - 405 - Arbor Hills 7811 Chubb Rd NORTHVILLE, MI US 48168 Contact: John Nahal

jnahal@gflenv.com T:

Test Package : FLEET (Additional Tests: KV40) To discuss this sample report, contact Customer Service at 1-800-237-1369. 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)

Report Id: GFL405 [WUSCAR] 06136796 (Generated: 04/05/2024 20:23:59) Rev: 1

Submitted By: John Nahal

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