

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
412044
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: resample)

Wear

All component wear rates are normal.

Contamination

Tests indicate that there is no fuel present in the oil. 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.

N SHP 15W40 (- GAL)	ug2022 Dec20	022 Jan2023 Apr2023 Ju	n2023 Jul2023 Sep2023 Nov2023	Jan 2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103525	GFL0103519	GFL0103497
Sample Date		Client Info		25 Jan 2024	18 Jan 2024	19 Dec 2023
Machine Age	hrs	Client Info		4236	4178	4039
Oil Age	hrs	Client Info		909	851	712
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	5	10	8
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	2	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	4	2
Lead	ppm	ASTM D5185m	>40	0	2	0
Copper	ppm	ASTM D5185m		<1	2	<1
Гin	ppm	ASTM D5185m	>15	<1	1	0
/anadium	ppm	ASTM D5185m	710	0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	10	17
Barium	ppm	ASTM D5185m	0	0	1	0
Molybdenum	ppm	ASTM D5185m	60	86	90	93
Manganese	ppm	ASTM D5185m		<1	1	0
Magnesium	ppm	ASTM D5185m	1010	872	901	900
Calcium	ppm	ASTM D5185m	1070	1008	1016	1057
Phosphorus	ppm	ASTM D5185m	1150	941	907	848
Zinc	ppm	ASTM D5185m	1270	1184	1171	1182
Sulfur	ppm	ASTM D5185m	2060	2771	2891	2840
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	3
Sodium	ppm	ASTM D5185m		3	6	2
Potassium	ppm	ASTM D5185m	>20	8	11	11
Fuel	%	ASTM D3524	>3.0	0.3	▲ 3.3	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.0	8.8	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	20.6	18.2
FLUID DEGRA	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	16.7	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.1	6.3	8.2
_ 400 (DI4)	mg nong	. 10 1 11 02000	0.0		0.0	J.L



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

: GFL0103525 : 06074307

: 10856398

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024

Diagnosed : 31 Jan 2024

Diagnostician : Don Baldridge

Test Package : FLEET (Additional Tests: PercentFuel)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

GFL environmental - 867 - Trafford (Blount Hauling)

1130 County Line Rd Trafford, AL US 35172

Contact: Jonathan Williams jonathan.williams@gflenv.com

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