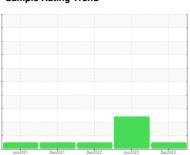


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
528M
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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.

	/	Jun2021	Dec2021	Dec2022 Jun2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105729	GFL0081415	GFL0064054
Sample Date		Client Info		18 Dec 2023	08 Jun 2023	14 Dec 2022
Machine Age	hrs	Client Info		10557	10127	9587
Oil Age	hrs	Client Info		10127	9587	7916
Oil Changed		Client Info		Not Changd	Changed	Changed
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
Iron	ppm	ASTM D5185m	>90	4	51	33
Chromium	ppm	ASTM D5185m	>20	<1	3	2
Nickel	ppm	ASTM D5185m	>2	<1	2	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m	>330	12	1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	18	2	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	59	56
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	870	789	860
Calcium	ppm	ASTM D5185m	1070	975	942	1050
Phosphorus	ppm	ASTM D5185m	1150	821	901	958
Zinc	ppm	ASTM D5185m	1270	1102	1087	1197
Sulfur	ppm	ASTM D5185m	2060	2879	2789	3349
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	15	13
Sodium	ppm	ASTM D5185m		0	<u> </u>	10
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Fuel	%	ASTM D3524	>3.0	0.0	△ 7.6	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.1	0.9	0.4
Nitration	Abs/cm	*ASTM D7624	>20	4.5	10.4	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	21.0	19.4
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	17.8	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	8.2	10.3
			0.0	0.0	U.L	10.0



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. **Unique Number**

Lab Number

: GFL0105729 : 06040238 : 10795467

cSt (100°C)

12

10

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 20 Dec 2023

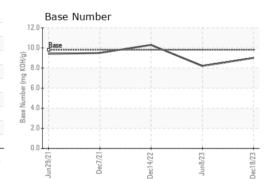
Dec14/22

Diagnosed : 22 Dec 2023 Diagnostician : Wes Davis

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

Viscosity @ 100°C

* - 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)



GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

14.0

Report Id: GFL415 [WUSCAR] 06040238 (Generated: 12/22/2023 15:10:39) Rev: 1

Submitted By: Frank Wolak