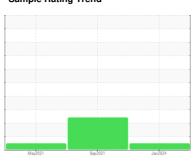


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **425023-840**

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

Fuel content negligible. 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.

GAL)		Ma	May/2021 Sap/2021 Jan/2024			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0054102	GFL0029269	GFL0018737
Sample Date		Client Info		29 Jan 2024	21 Sep 2021	10 May 2021
Machine Age	hrs	Client Info		18778	13776	12931
Oil Age	hrs	Client Info		2433	855	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	SEVERE	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	>110	54	27	24
Chromium	ppm	ASTM D5185m	>4	2	2	2
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	3
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	3	3	2
Lead	ppm	ASTM D5185m	>45	15	12	11
Copper	ppm	ASTM D5185m	>85	2	2	2
Tin	ppm	ASTM D5185m	>4	2	<1	1
Antimony	ppm	ASTM D5185m			<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	13	10	11
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	70	70	74
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	849	1074	1074
Calcium	ppm	ASTM D5185m	1070	2044	1285	1321
Phosphorus	ppm	ASTM D5185m	1150	1331	1154	1214
Zinc	ppm	ASTM D5185m	1270	1598	1385	1406
Sulfur	ppm	ASTM D5185m	2060	3240	2672	2915
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	11	5	4
Sodium	ppm	ASTM D5185m		2	3	4
Potassium	ppm	ASTM D5185m	>20	5	7	3
Fuel	%	ASTM D3524	>5	0.3	10.2	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	15.1	12.8	13.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	33.1	26.1	27.2
FLUID DEGRAI	OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	29.4	23	23.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	6.7	8.9
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OIL ANALYSIS REPORT







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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0054102 : 06076313

Recieved Diagnosed : 10858404

: 31 Jan 2024 : 05 Feb 2024 Diagnostician : Jonathan Hester

Test Package : FLEET (Additional Tests: PercentFuel) 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)

GFL Environmental - 630 - Northern A1 PA

117 Moonlite Dr Smithfield, PA US 15478 Contact: MIKE NEWMAN

miken@northerna1.com T: (231)564-2362