

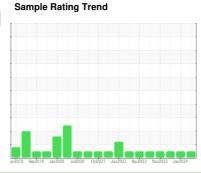
OIL ANALYSIS REPORT

(**72248V**) 829066-101270

Component

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

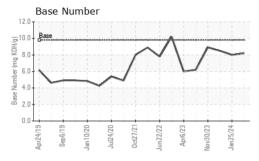
Fluid Condition

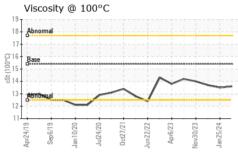
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093581	GFL0101976	GFL0101956
Sample Date		Client Info		07 Mar 2024	25 Jan 2024	25 Dec 2023
Machine Age	hrs	Client Info		67441	67331	67138
Oil Age	hrs	Client Info		550	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
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
			>90		33	21
Iron	ppm	ASTM D5185m		31		
Chromium	ppm	ASTM D5185m		1	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		7	6	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		<1	1	2
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	2	4
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	57	61	58
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	925	959	882
Calcium	ppm	ASTM D5185m	1070	1031	1095	1073
Phosphorus	ppm	ASTM D5185m	1150	1041	1111	1033
Zinc	ppm	ASTM D5185m	1270	1269	1258	1226
Sulfur	ppm	ASTM D5185m	2060	3076	3005	2883
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		4	5	6
Potassium	ppm	ASTM D5185m	>20	2	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	8.0	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.9	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.1	19.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	15.9	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.2	8.0	8.5
(5.14)	99				0	



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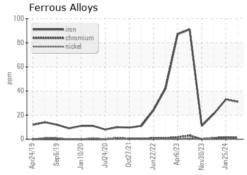


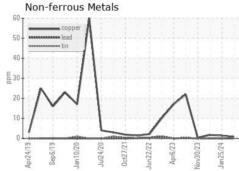


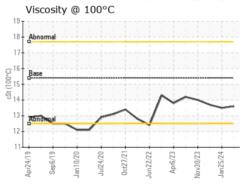
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

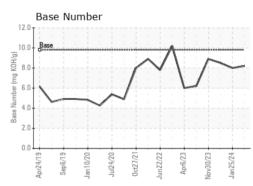
FLUID PROPI	ERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.5	13.7

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06112671 Unique Number: 10916168

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0093581

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

Test Package : FLEET

Received : 08 Mar 2024 **Tested** : 11 Mar 2024

Diagnosed : 11 Mar 2024 - Wes Davis

GFL Environmental - 893 - OK East Hauling 2100 Lilly Street Seminole, OK US 74868

Contact: Roger Barlow rbarlow@gflenv.com T: (405)204-6183

* - 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)