

OIL ANALYSIS REPORT

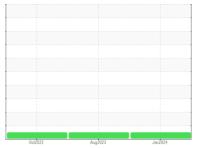
Sample Rating Trend

NORMAL



Machine Id 528015 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (10 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

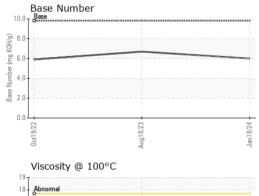
Fluid Condition

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

			2022	Aug2023 Jan20		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100423	GFL0076914	GFL0055223
Sample Date		Client Info		18 Jan 2024	18 Aug 2023	19 Oct 2022
Machine Age	hrs	Client Info		25598	25008	24029
Oil Age	hrs	Client Info		590	506	227
Oil Changed		Client Info		Changed	Changed	Changed
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
Iron	ppm	ASTM D5185m	>120	18	13	24
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	8
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	7
Lead	ppm	ASTM D5185m	>40	<1	<1	3
Copper	ppm	ASTM D5185m	>330	1	2	9
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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	10	8	112
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	60	56	68	92
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	860	902	561
Calcium	ppm	ASTM D5185m	1070	1050	1129	1457
Phosphorus	ppm	ASTM D5185m	1150	871	1018	642
Zinc	ppm	ASTM D5185m	1270	1156	1195	841
Sulfur	ppm	ASTM D5185m	2060	2750	3174	2874
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	8
Sodium	ppm	ASTM D5185m		6	5	2
Potassium	ppm	ASTM D5185m	>20	2	2	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	11.3	10.5	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.4	26.7
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	16.0	21.9



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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

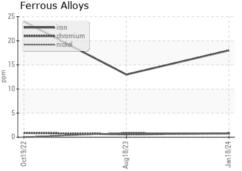
ASTM D445 15.4

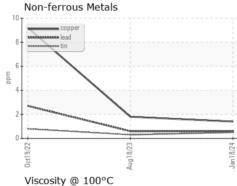
13.0

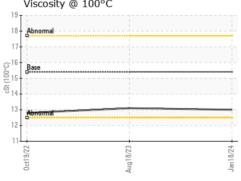
13.1

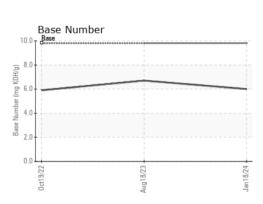
12.8

	FLUID PROP	ERTIE
	Visc @ 100°C	cSt
	GRAPHS	
nal	Ferrous Alloys	













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10856611 Test Package : FLEET

: GFL0100423 : 06074520

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 30 Jan 2024 Diagnosed : 31 Jan 2024 Diagnostician : Wes Davis

GFL Environmental - 900 - Antigo HC 1715 Deleglise St.

Antigo, WI US 54409 Contact: Kirk Koss kirk.koss@gflenv.com T: (715)571-2784

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)