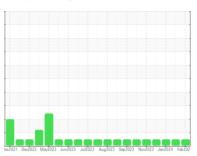


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **811044**

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

There is no indication of any contamination in the oil

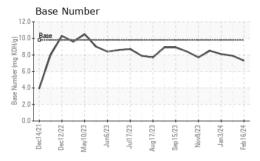
Fluid Condition

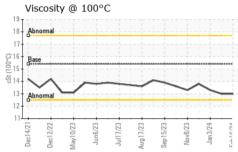
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Inc2021 Doc2022 Miny2023 Jun2023 Jun2023 Aung2023 Sony2023 Nov2023 Jan2024 Feb202						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110888	GFL0110905	GFL0082629
Sample Date		Client Info		16 Feb 2024	27 Jan 2024	03 Jan 2024
Machine Age	hrs	Client Info		6270	6169	6023
Oil Age	hrs	Client Info		101	146	216
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	24	20	13
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	12	11	6
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	2	5	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	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	1	1	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	57	58
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	968	894	963
Calcium	ppm	ASTM D5185m	1070	1066	982	1050
Phosphorus	ppm	ASTM D5185m	1150	981	1027	1083
Zinc	ppm	ASTM D5185m	1270	1235	1162	1243
Sulfur	ppm	ASTM D5185m	2060	3119	2917	3415
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	4
Sodium	ppm	ASTM D5185m		7	6	4
Potassium	ppm	ASTM D5185m	>20	16	13	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.8	0.6
Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.7	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	19.5	19.0
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	14.9	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.3	7.9	8.1



OIL ANALYSIS REPORT

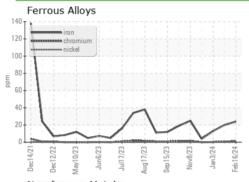


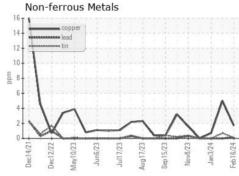


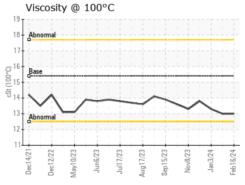
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

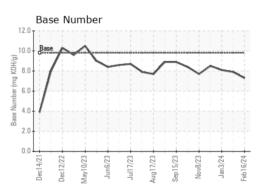
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.0	13.3

GRAPHS













Laboratory Sample No.

: GFL0110888

Lab Number : 06098978 Unique Number : 10897208

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 Feb 2024

Tested : 26 Feb 2024 Diagnosed : 26 Feb 2024 - Wes Davis

4005 Hwy 161 N. Little Rock, AR US 72117 Contact: Brad Koenig

bkoenig@gflenv.com

GFL Environmental - 814 - Little Rock Hauling

Test Package : FLEET Certificate L2367 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)

T:

F: