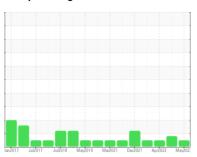


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **3720** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (46 C

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 oil.

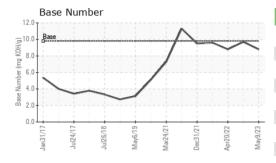
Fluid Condition

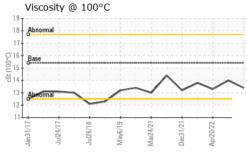
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jan 2017 Ju	12017 Jul2018 May20	19 Mar2021 Dec2021 Apr20	22 May202:	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0070488	GFL0058547	GFL0044337
Sample Date		Client Info		09 May 2023	28 Sep 2022	20 Apr 2022
Machine Age	hrs	Client Info		68534	68534	67711
Oil Age	hrs	Client Info		68534	12	550
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>75	6	57	22
Chromium	ppm	ASTM D5185m	>5	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>15	1	<u>^</u> 26	4
Lead	ppm	ASTM D5185m	>25	<1	0	2
Copper	ppm	ASTM D5185m	>100	<1	2	4
Tin	ppm	ASTM D5185m	>4	0	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	4	217	12
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	61	71	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	897	375	812
Calcium	ppm	ASTM D5185m	1070	1149	1588	1023
Phosphorus	ppm	ASTM D5185m	1150	1029	1036	970
Zinc	ppm	ASTM D5185m	1270	1196	1220	1149
Sulfur	ppm	ASTM D5185m	2060	3110	4167	2325
CONTAMINAN'	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	3	7	6
Sodium	ppm	ASTM D5185m		2	13	22
Potassium	ppm	ASTM D5185m	>20	<1	2	3
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.2	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.6	5.6	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	19.8	20.9
FLUID DEGRAD	NOITA	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	14.3	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	9.7	8.8



OIL ANALYSIS REPORT

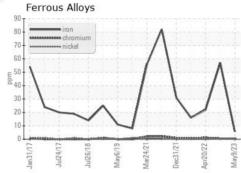


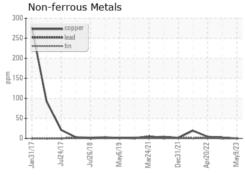


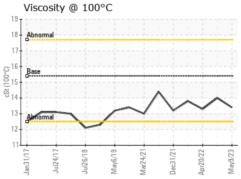
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

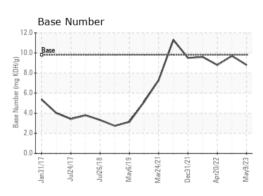
FLUID PROPE	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	14.0	13.3

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10470950 Test Package : FLEET

: GFL0070488 : 05846843

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 May 2023 Diagnosed : 16 May 2023 Diagnostician : Wes Davis

GFL Environmental - 19DR - Deep Run/TriEast

2287 Leslie R Stroud Road Kinston, NC US 28504-9477 Contact: Spencer Liggon spencer.liggon@gflenv.com T: (800)207-6618

* - 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)

Report Id: GFL19DR [WUSCAR] 05846843 (Generated: 07/05/2023 08:29:04) Rev: 1

Submitted By: ?