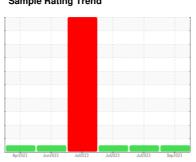


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **427180 - SW4720**

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

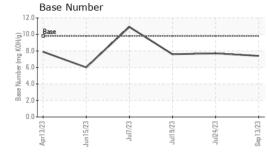
Fluid Condition

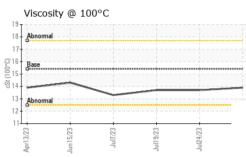
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

āAL)		Apr2023	Jun 2023 Jul 2023	Jui2023 Jui2023	Sep 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094104	GFL0089414	GFL0085490
Sample Date		Client Info		13 Sep 2023	24 Jul 2023	19 Jul 2023
Machine Age	mls	Client Info		349157	341327	340822
Oil Age	mls	Client Info		349157	339095	340822
Oil Changed		Client Info		Changed	Oil Added	Oil Added
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	3	2
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	<1
Lead	ppm	ASTM D5185m	>40	4	2	1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
Vanadium	ppm	ASTM D5185m	7.0	<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	58	38	39
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	10	10	11
Calcium	ppm	ASTM D5185m	1070	3339	2438	2351
Phosphorus	ppm	ASTM D5185m	1150	1364	1034	997
Zinc	ppm	ASTM D5185m	1270	1647	1253	1167
Sulfur	ppm	ASTM D5185m	2060	4740	3791	3415
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	10	6	0
Sodium	ppm	ASTM D5185m		4	2	0
Potassium	ppm	ASTM D5185m	>20	1	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.0	5.8	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	15.4	14.9
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.0	9.1	8.8
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	7.7	7.6
(DIV)	9		3.0			



OIL ANALYSIS REPORT

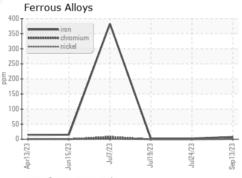


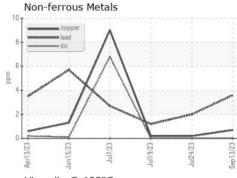


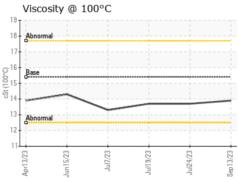
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

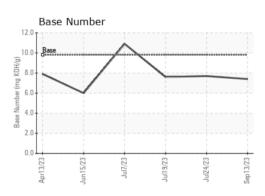
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.7	13.7

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10657039 Test Package : FLEET

: 05955826

: GFL0094104

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Sep 2023 Diagnosed : 21 Sep 2023 Diagnostician : Jonathan Hester

GFL Environmental - 983 - Sugar Land Hauling 16011 West Belfort Street

Sugar Land, TX US 77498 Contact: Gino Griego

ggriego@gflenv.com T:

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)

F: