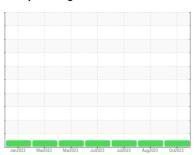


OIL ANALYSIS REPORT

Sample Rating Trend









427059-402050

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

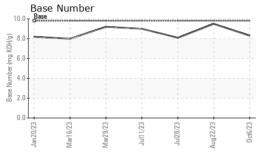
Fluid Condition

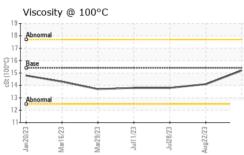
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

`		Jan2023	Mar2U23 Mar2U23	Jul2023 Jul2023 Aug2023	Oct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094826	GFL0090436	GFL0090422
Sample Date		Client Info		06 Oct 2023	22 Aug 2023	28 Jul 2023
Machine Age	hrs	Client Info		5474	32249	32089
Oil Age	hrs	Client Info		0	299	139
Oil Changed		Client Info		N/A	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	18	3	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	3	2
Lead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	1	2	50
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	18	<1
Barium	ppm	ASTM D5185m	0	10	0	0
Molybdenum	ppm	ASTM D5185m	60	61	78	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	868	940	889
Calcium	ppm	ASTM D5185m	1070	979	1125	1058
Phosphorus	ppm	ASTM D5185m	1150	960	1068	992
Zinc	ppm	ASTM D5185m	1270	1120	1323	1175
Sulfur	ppm	ASTM D5185m	2060	2936	3881	2908
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	3	3	4
Sodium	ppm	ASTM D5185m		0	24	0
Potassium	ppm	ASTM D5185m		2	41	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	3.1	0.1	0.2
Nitration	Abs/cm	*ASTM D7624		7.7	4.6	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	17.0	17.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	12.9	13.8
	/100/.1111111	710111127111		10.0	12.0	10.0
Base Number (BN)	mg KOH/g	ASTM D2896		8.3	9.5	8.1



OIL ANALYSIS REPORT

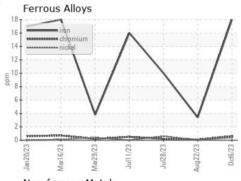


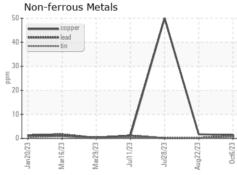


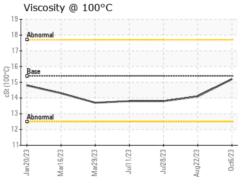
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

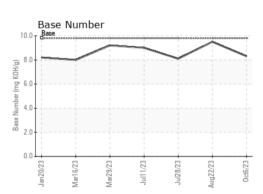
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.2	14.1	13.8

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10699002 Test Package : FLEET

: 05981707

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0094826 Received Diagnosed

: 17 Oct 2023 : 18 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine) 13737 Plant Rd Childersburg, AL US 35044

Contact: JONATHAN WILLIAMS

jonathan.williams@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: