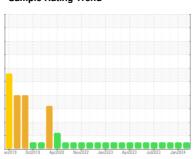


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



725047-310032

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

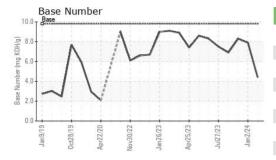
Fluid Condition

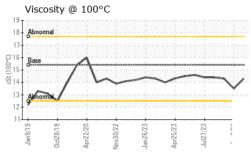
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL) sid019 0cd019 Apr2020 Nov2022 Jan2023 Apr2023 Jun2023 Jan2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103270	GFL0103351	GFL0090716
Sample Date		Client Info		25 Jan 2024	02 Jan 2024	25 Sep 2023
Machine Age	hrs	Client Info		18487	18388	17888
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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	>110	18	6	10
Chromium	ppm	ASTM D5185m	>4	2	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	1	<1
Lead	ppm	ASTM D5185m	>45	16	<1	0
Copper	ppm	ASTM D5185m	>85	1	1	0
Tin	ppm	ASTM D5185m	>4	1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	15	3	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	62	43
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	627	942	697
Calcium	ppm	ASTM D5185m	1070	1828	1107	768
Phosphorus	ppm	ASTM D5185m	1150	899	1033	725
Zinc	ppm	ASTM D5185m	1270	1065	1232	911
Sulfur	ppm	ASTM D5185m	2060	2589	2931	2225
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	6	3	3
Sodium	ppm	ASTM D5185m		9	6	8
Potassium	ppm	ASTM D5185m	>20	0	0	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	12.5	7.1	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.0	18.6	19.8
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	15.4	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.4	7.9	8.3



OIL ANALYSIS REPORT

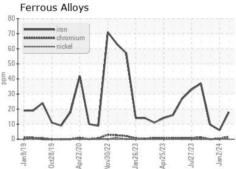


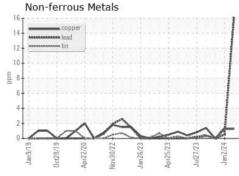


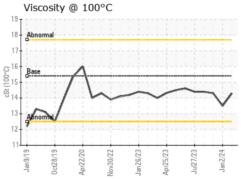
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

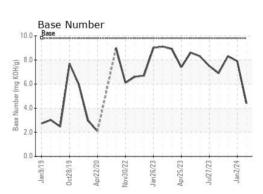
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.5	14.3

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10849200 Test Package : FLEET

: GFL0103270 : 06072523

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 29 Jan 2024 Diagnosed : 30 Jan 2024 Diagnostician : Don Baldridge

GFL Environmental - 836 - Kansas City Hauling 7801 East Truman Road

Kansas City, MO US 64126 Contact: Robert Hart

rhart@gflenv.com T: (580)461-1509

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)