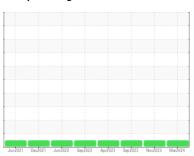


OIL ANALYSIS REPORT

Sample Rating Trend







724008-511

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

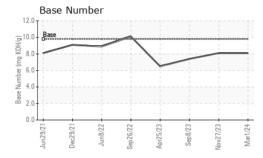
Fluid Condition

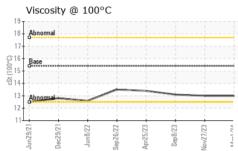
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jun2021 E	0ec2021 Jun2022 Sep20	22 Apr2023 Sep2023 Nov2023	Mar2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0097500	GFL0097477	GFL0092913
Sample Date		Client Info		01 Mar 2024	27 Nov 2023	08 Sep 2023
Machine Age	hrs	Client Info		38968	38968	38968
Oil Age	hrs	Client Info		38384	38384	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.0	<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	>140	96	105	95
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>12	2	2	2
Lead	ppm	ASTM D5185m	>20	3	1	4
Copper	ppm	ASTM D5185m	>50	4	3	4
Tin	ppm	ASTM D5185m	>4	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	9	9	11
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	58	61
Manganese	ppm	ASTM D5185m	0	<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	928	960	980
Calcium	ppm	ASTM D5185m	1070	1145	1196	1265
Phosphorus	ppm	ASTM D5185m	1150	999	975	1003
Zinc	ppm	ASTM D5185m	1270	1224	1244	1247
Sulfur	ppm	ASTM D5185m	2060	2998	2764	3321
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	6	7
Sodium	ppm	ASTM D5185m		3	2	4
Potassium	ppm	ASTM D5185m	>20	3	0	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.6	1.6	1.4
Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.1	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.7	20.8	19.8
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	15.0	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	8.1	7.4



OIL ANALYSIS REPORT

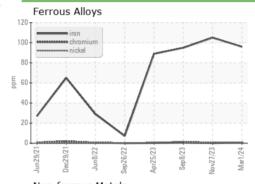


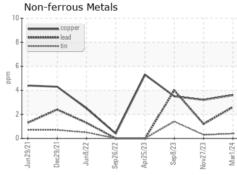


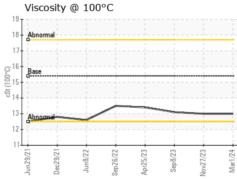
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

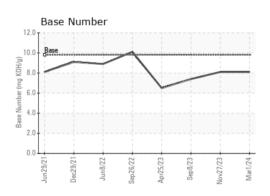
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	13.0	13.1

GRAPHS













Laboratory Sample No.

: GFL0097500 Lab Number : 06111144 Unique Number : 10914641 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Mar 2024 : 07 Mar 2024

Tested Diagnosed : 07 Mar 2024 - Wes Davis GFL Environmental - 641 - Alpena 1241 KING SETTLEMENT RD

ALPENA, MI US 49707

Contact: DYLAN TOLAN

dylan.tolan@gflenv.com T: (989)854-7203

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)