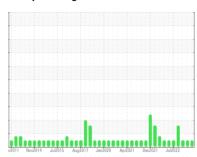


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10034 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (46 QTS)

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

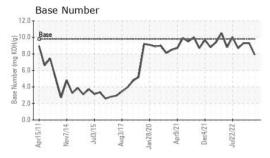
Fluid Condition

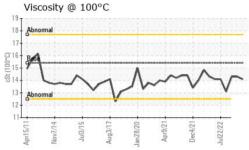
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

«2011 Nov2014 Jul2015 Aug2017 Jan2020 Apr2021 Dec2021 Jul2022						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080550	GFL0074432	GFL0074439
Sample Date		Client Info		20 Jul 2023	25 Apr 2023	07 Apr 2023
Machine Age	hrs	Client Info		251457	251457	251457
Oil Age	hrs	Client Info		251457	251457	251457
Oil Changed		Client Info		Changed	Changed	Changed
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	>90	82	16	19
Chromium	ppm	ASTM D5185m	>20	3	<1	<1
Nickel	ppm	ASTM D5185m	>2	1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	6	2	4
Lead	ppm	ASTM D5185m	>40	5	0	0
Copper	ppm	ASTM D5185m	>330	2	0	0
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	1	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	57	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1009	902	838
Calcium	ppm	ASTM D5185m	1070	1139	999	992
Phosphorus	ppm	ASTM D5185m	1150	1068	971	917
Zinc	ppm	ASTM D5185m	1270	1331	1223	1083
Sulfur	ppm	ASTM D5185m	2060	3632	3158	2807
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	4	5
Sodium	ppm	ASTM D5185m		22	31	42
Potassium	ppm	ASTM D5185m	>20	11	18	20
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	11.0	6.3	6.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	18.1	18.7
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	14.1	14.4
Base Number (BN)	mg KOH/g		9.8	7.9	9.3	9.3
	39			-		



OIL ANALYSIS REPORT



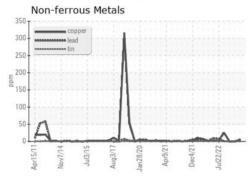


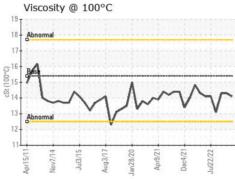
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

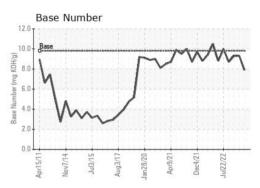
FLUID PROPE	EKIIES	method	ilmivbase		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.3	14.3

GRAPHS

Ferrous Alloys [100











Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10565537 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0080550 : 05904181

Received : 21 Jul 2023 Diagnosed : 21 Jul 2023 Diagnostician : Wes Davis

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

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)