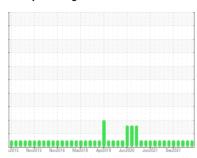


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **2574** Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (13 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

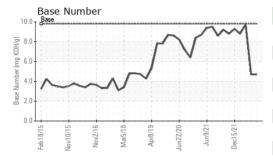
Fluid Condition

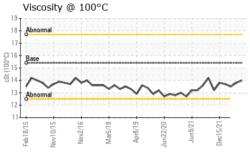
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		32015 Nov20	15 Nov2016 Mar2018	Apr2019 Jun2020 Jun2021	Dec2021	
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0069766	GFL0069775	GFL0043346
Sample Date		Client Info		30 Jun 2023	17 May 2023	07 Apr 2022
Machine Age	hrs	Client Info		20125	20053	18092
Oil Age	hrs	Client Info		20125	20053	360
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>165	57	49	20
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	12	13	8
Lead	ppm	ASTM D5185m	>150	<1	1	<1
Copper	ppm	ASTM D5185m	>90	4	4	1
Tin	ppm	ASTM D5185m	>5	2	2	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	40	34	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	24	24	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	159	148	929
Calcium	ppm	ASTM D5185m	1070	1889	1970	1134
Phosphorus	ppm	ASTM D5185m	1150	852	913	1065
Zinc	ppm	ASTM D5185m	1270	1054	1130	1207
Sulfur	ppm	ASTM D5185m	2060	3813	3437	2789
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>35	15	16	22
Sodium	ppm	ASTM D5185m		6	4	12
Potassium	ppm	ASTM D5185m	>20	5	7	<1
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>7.5	1.1	1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.3	11.9	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.9	28.7	19.7
FLUID DEGRAD	NOITAC	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.4	24.2	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.7	4.7	9.7
(=) (=) (=)	39					



OIL ANALYSIS REPORT

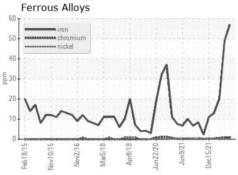


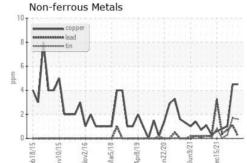


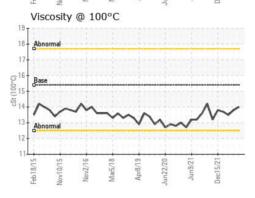
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

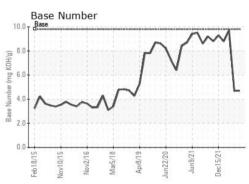
FLUID PROPI	ERTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.8	13.5

GRAPHS













Certificate L2367

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

: GFL0069766 : 05893289

: 10549099

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 10 Jul 2023 Diagnosed

: 11 Jul 2023 Diagnostician : Don Baldridge

GFL Environmental - 031 - Greenville/Spartanburg

1635 Antioch Church Rd Piedmont, SC US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

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)

T:

F: