

OIL ANALYSIS REPORT

Sample Rating Trend

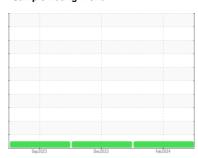




GFL035
Machine Id
934048
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)





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

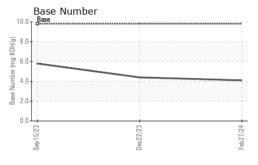
Fluid Condition

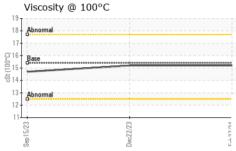
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Sep	12023	Dec2023 Feb20	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102351	GFL0102307	GFL0071605
Sample Date		Client Info		27 Feb 2024	22 Dec 2023	15 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	15	16	39
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	10
Lead	ppm	ASTM D5185m	>40	2	0	1
Copper	ppm	ASTM D5185m	>330	1	2	11
Tin	ppm	ASTM D5185m		1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	8	22
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	45	57
Manganese	ppm	ASTM D5185m	0	<1	1	10
Magnesium	ppm	ASTM D5185m	1010	717	546	717
Calcium	ppm	ASTM D5185m	1070	2124	1656	1393
Phosphorus	ppm	ASTM D5185m	1150	766	625	810
Zinc	ppm	ASTM D5185m	1270	1281	920	1006
Sulfur	ppm	ASTM D5185m	2060	2890	2194	2717
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	23
Sodium	ppm	ASTM D5185m		7	7	4
Potassium	ppm	ASTM D5185m	>20	7	4	23
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.1	12.3	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	22.9	22.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	19.8	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.1	4.4	5.8
()	0 - 0					



OIL ANALYSIS REPORT

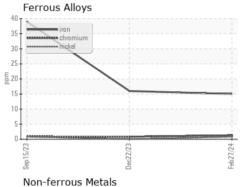


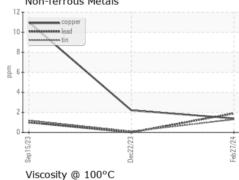


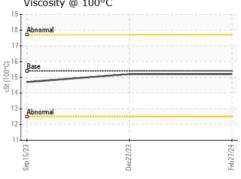
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

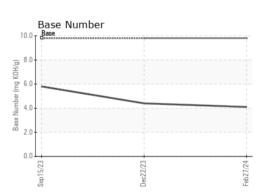
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	15.2	15.2	14.7

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0102351 Lab Number : 06104211 Unique Number : 10902441 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 29 Feb 2024 : 01 Mar 2024 : 01 Mar 2024 - Wes Davis

GFL Environmental - 035 - Greensboro 1236 Elon Place

High Point, NC US 27263

Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712

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)