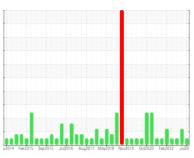


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id 3510 Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (11 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 oil.

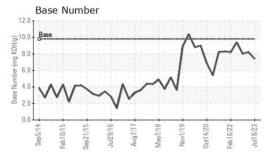
Fluid Condition

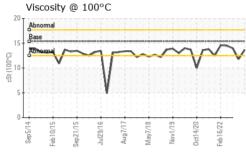
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

p2014 Feb2015 Sep2015 Jul2016 Aug2017 Mep2018 Nov2019 Oc2020 Feb2022 Jul20						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0071577	GFL0053180	GFL0061642
Sample Date		Client Info		18 Jul 2023	15 Feb 2023	14 Dec 2022
Machine Age	hrs	Client Info		70189	70189	70189
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<u> </u>	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	52	22	35
Chromium	ppm	ASTM D5185m	>5	2	1	2
Nickel	ppm	ASTM D5185m	>4	<1	1	2
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>15	4	2	4
Lead	ppm	ASTM D5185m	>25	2	1	1
Copper	ppm	ASTM D5185m	>100	1	<1	2
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	4	8	0
Barium	ppm	ASTM D5185m	0	<1	0	1
Molybdenum	ppm	ASTM D5185m	60	70	67	68
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1050	931	879
Calcium	ppm	ASTM D5185m	1070	1249	1210	1314
Phosphorus	ppm	ASTM D5185m	1150	1163	1043	1042
Zinc	ppm	ASTM D5185m	1270	1417	1344	1328
Sulfur	ppm	ASTM D5185m	2060	3882	3599	3535
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	7	7
Sodium	ppm	ASTM D5185m		10	8	17
Potassium	ppm	ASTM D5185m	>20	<1	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	1.4	0.2	1.5
Nitration	Abs/cm	*ASTM D7624	>20	12.6	7.4	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	19.0	26.5
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	14.6	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	8.2	8.0
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OIL ANALYSIS REPORT

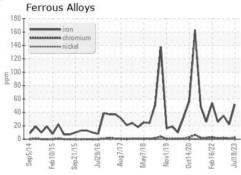


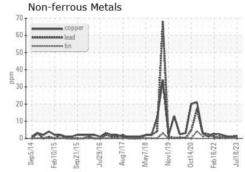


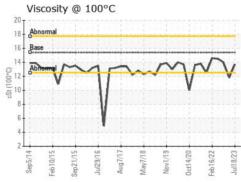
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

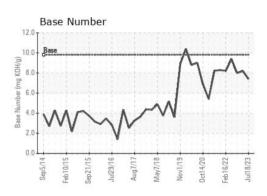
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	<u></u> 11.8	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10566634 Test Package : FLEET

: GFL0071577 : 05905278

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jul 2023 Diagnosed

: 25 Jul 2023 Diagnostician : Wes Davis

High Point, NC

GFL Environmental - 035 - Greensboro

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)

1236 Elon Place