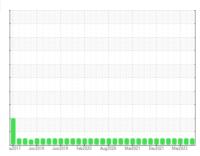


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **3747** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (38 QTS)

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

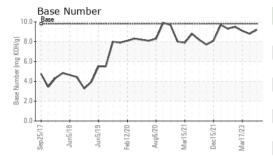
Fluid Condition

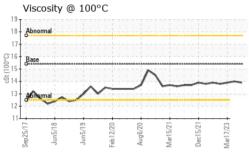
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Q15)		p2017 Jun2	018 Jun2019 Feb2020	Aug2020 Mar2021 Dec2021	Mar2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0071570	GFL0071536	GFL0053138
Sample Date		Client Info		15 Aug 2023	26 Apr 2023	17 Mar 2023
Machine Age	hrs	Client Info		10027	10027	10027
Oil Age	hrs	Client Info		600	600	600
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	>165	8	3	3
Chromium	ppm	ASTM D5185m	>5	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		2	<1	<1
Lead	ppm	ASTM D5185m	>150	0	0	0
Copper	ppm		>90	10	0	0
Tin	ppm	ASTM D5185m	>5	<1	0	0
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	7	3	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	63	56
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	943	1029	942
Calcium	ppm	ASTM D5185m	1070	1128	1163	1092
Phosphorus	ppm	ASTM D5185m	1150	1027	1073	1004
Zinc	ppm	ASTM D5185m	1270	1235	1374	1281
Sulfur	ppm	ASTM D5185m	2060	3697	3638	3448
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	6	5	3
Sodium	ppm	ASTM D5185m		4	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	5.9	5.6	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	17.9	18.2
FLUID DEGRAI	/OITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	13.7	13.5
Base Number (BN)	mg KOH/g		9.8	9.2	8.8	9.1
Dago Harribor (DIN)	mg Norry	, 10 THI D2000	0.0	V.L	0.0	V. I



OIL ANALYSIS REPORT

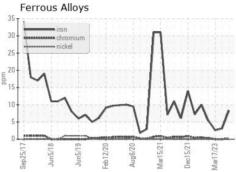


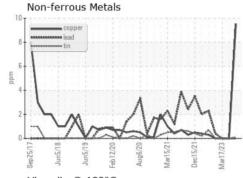


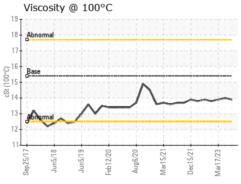
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual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

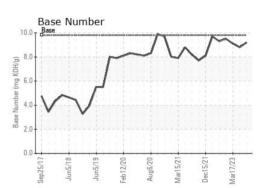
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.0	13.9

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Unique Number : 10615895 Test Package : FLEET

: GFL0071570 : 05930624

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Aug 2023 Diagnosed : 22 Aug 2023

Diagnostician : 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

* - 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)

Report Id: GFL035 [WUSCAR] 05930624 (Generated: 08/22/2023 18:48:57) Rev: 1

Submitted By: JORGE COSTA

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