

OIL ANALYSIS REPORT

Sample Rating Trend





Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

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

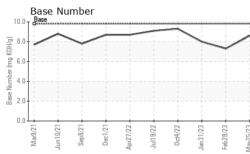
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

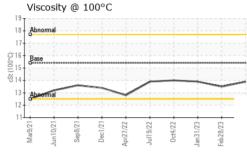
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AL)		Mar2021 Jun2	2021 Sep2021 Dec2021 Apr2	022 Jul2022 Oct2022 Jan2023 Feb2	023 May2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083938	GFL0071390	GFL0044293
Sample Date		Client Info		25 May 2023	28 Feb 2023	31 Jan 2023
Machine Age	hrs	Client Info		9854	9273	9059
Dil Age	hrs	Client Info		600	214	923
Dil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	18	30	25
Chromium	ppm	ASTM D5185m	>20	<1	1	1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Fitanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	<1
ead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
īin	ppm	ASTM D5185m	>15	<1	0	<1
/anadium	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	6	3	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	64	61	65
<i>N</i> anganese	ppm	ASTM D5185m	0	<1	<1	<1
<i>I</i> lagnesium	ppm	ASTM D5185m	1010	908	830	971
Calcium	ppm	ASTM D5185m	1070	1114	1116	1243
Phosphorus	ppm	ASTM D5185m	1150	988	944	1028
Zinc	ppm	ASTM D5185m	1270	1239	1175	1412
Sulfur	ppm	ASTM D5185m	2060	3300	2512	3805
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	3	3
Sodium	ppm	ASTM D5185m		2	4	4
Potassium	ppm	ASTM D5185m	>20	2	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	2	1.6
Nitration	Abs/cm	*ASTM D7624	>20	8.3	10.9	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	24.1	22.0
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	18.2	16.6
Base Number (BN)	mg KOH/g			8.6	7.3	8.0



OIL ANALYSIS REPORT

VISUAL





Yellow Metal scalar Visual NONE NONE NONE NONE NONE Precipitate scalar Visual NONE NONE NONE NONE Silt scalar Visual NONE NONE NONE NONE Sand/Dirt scalar Visual NONE NONE NONE NONE Appearance scalar Visual NORML NORML NORML NORML NORML Odor scalar Visual NORML NORML NORML NORML NORML Emulsified Water scalar Visual >0.2 NEG NEG NEG Free Water scalar Visual NORML NEG NEG Visual NORML NEG NEG NEG Free Water Scalar Visual NORML NEG NEG Free Water Scalar Visual NORML NEG NEG Free Water Scalar Visual NORML NEG NEG NEG Free Water Scalar Visual NORML NEG NEG NEG Free Water Scalar Visual NORML NEG NEG NEG NEG NEG NEG NEG NEG Visc @ 100°C cSt ASTM D445 15.4 13.9 13.5 13.9 GRAPHS Ferrous Alloys
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Emulsified Water scalar *Visual >0.2 NEG NEG NEG Free Water scalar *Visual NEG NEG NEG FLUID PROPERTIES method limit/base current history1 history2 Visc @ 100°C cSt ASTM D445 15.4 13.9 13.5 13.9 GRAPHS Ferrous Alloys
Free Water scalar *Visual NEG NEG NEG FLUID PROPERTIES method limit/base current history1 history2 Visc @ 100°C cSt ASTM D445 15.4 13.9 13.5 13.9 GRAPHS Ferrous Alloys 0 0 0 0 0 0 0 0 0 0 0 0 0
FLUID PROPERTIES method limit/base current history1 history2 Visc @ 100°C cSt ASTM D445 15.4 13.9 13.5 13.9 GRAPHS Ferrous Alloys
Visc @ 100°C cSt ASTM D445 15.4 13.9 13.5 13.9
GRAPHS Ferrous Alloys
Ferrous Alloys
EVICE EVICES
EZE EZE Z5 EZE EZE Z5 L0 L0 L0 L0 L0 L0 L0 L0 L0 L0
Non-ferrous Metals
copper lead
6+
Ed a
2
Mar9/21 Jun10/21 Sep8/21 Dec1/21 Jun19/22 Jan31/23 Feb28/23 Reb28/23 May25/23
Viscosity @ 100°C
¹⁹ T Base Number
18 Abnormal
17- = ^{8.0}
177 Galago (Charles and Charles and Charl
2) 15 57 14
Mar6/21 Jun10/21 Sep8/21: Bec1/21 Jun19/22 Jan31/23 Feb28/23 Feb28/23 May25/23 Mar6/21 Jun10/21 Jec1/21 Dec1/21 Jen31/22 Apr27/22 Apr27/22 Cot4/22 Jan31/23 Sep8/21/23
Ap Jac Ap Ju V Ap Ap Ap Ap Ap Ap Ap Ap Ap Ap
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 622 - Traverse City Hauling
Sample No. : GFL0083938 Received : 30 May 2023 160 Hughes Dr
Lab Number : 05859091 Diagnosed : 31 May 2023 Traverse City, MI Unique Number : 10493556 Diagnostician : Wes Davis US 49686
Test Package : FLEET Contact: GARY BREWER

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)

Certificate L2367

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Submitted By: TECHNICIAN ACCOUNT

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