

OIL ANALYSIS REPORT

(EIB893) Machine Id 3641

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (8 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

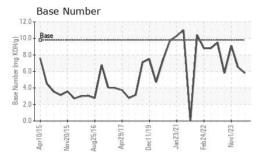
Fluid Condition

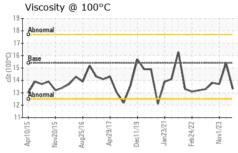
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

,		и2015 Nov20	15 Aug2016 Apr2017	Dec2019 Jan2021 Feb2022	Nov2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0089586	GFL0089600	GFL0083066
Sample Date		Client Info		20 Mar 2024	27 Feb 2024	01 Nov 2023
Machine Age	hrs	Client Info		0	0	90
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	52	111	30
Chromium	ppm	ASTM D5185m	>5	5	2	<1
Nickel	ppm	ASTM D5185m	>4	1	4	0
Titanium	ppm	ASTM D5185m	>2	2	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	41	8	5
Lead	ppm	ASTM D5185m	>25	1	3	0
Copper	ppm	ASTM D5185m	>100	9	5	0
Tin	ppm	ASTM D5185m	>4	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	8	99
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	62	94	80
Manganese	ppm	ASTM D5185m	0	1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	905	1109	822
Calcium	ppm	ASTM D5185m	1070	1103	1343	1131
Phosphorus	ppm	ASTM D5185m	1150	1072	1188	847
Zinc	ppm	ASTM D5185m	1270	1205	1385	1087
Sulfur	ppm	ASTM D5185m	2060	2628	2760	2759
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	23	11	10
Sodium	ppm	ASTM D5185m		4	10	3
Potassium	ppm	ASTM D5185m	>20	23	6	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.9	1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	11.0	13.9	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	27.5	20.9
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.9	28.4	14.8
	mg KOH/g	ASTM D2896	9.8	5.8	6.5	9.1
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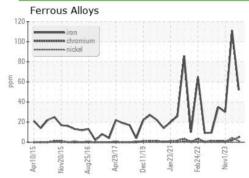


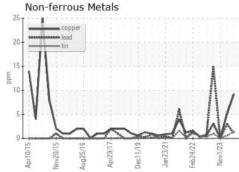


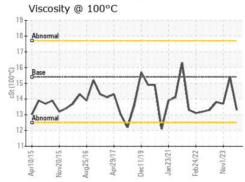
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

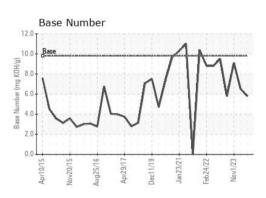
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	15.4	13.7

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0089586 Lab Number : 06130116 Unique Number : 10949581 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Mar 2024

Tested : 27 Mar 2024 Diagnosed : 27 Mar 2024 - Wes Davis

GFL Environmental - 072 - Americus - Transwaste

361 McMath Mill Road Americus, GA

US 31719 Contact: RICHARD HEINZERLING

richard.heinzerling@gflenv.com

* - 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)

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