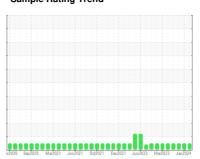


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **12022**

Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (10 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

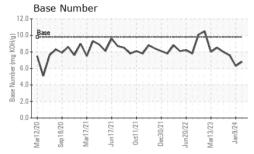
Fluid Condition

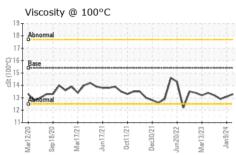
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL) #2020 Smp2020 Mm2021 Jum2021 On2021 Dm2021 Jum2022 Mm2023 Jum2024							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0113466	PCA0101772	PCA0095865	
Sample Date		Client Info		15 Mar 2024	09 Jan 2024	23 Oct 2023	
Machine Age	hrs	Client Info		11029	10591	9986	
Oil Age	hrs	Client Info		438	605	544	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	29	36	31	
Chromium	ppm	ASTM D5185m	>20	<1	2	1	
Nickel	ppm	ASTM D5185m	>4	0	1	<1	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	15	16	15	
Lead	ppm	ASTM D5185m	>40	0	0	0	
Copper	ppm	ASTM D5185m	>330	4	11	2	
Tin	ppm	ASTM D5185m	>15	0	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	11	8	11	
Barium	ppm	ASTM D5185m	0	0	0	3	
Molybdenum	ppm	ASTM D5185m	60	73	71	85	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	768	871	820	
Calcium	ppm	ASTM D5185m	1070	1529	1183	1214	
Phosphorus	ppm	ASTM D5185m	1150	1148	982	1013	
Zinc	ppm	ASTM D5185m	1270	1307	1267	1204	
Sulfur	ppm	ASTM D5185m	2060	3382	2730	3111	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	7	11	
Sodium	ppm	ASTM D5185m		4	3	2	
Potassium	ppm	ASTM D5185m	>20	27	22	36	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.8	0.9	0.7	
Nitration	Abs/cm	*ASTM D7624		9.2	9.7	8.7	
Sulfation	Abs/.1mm	*ASTM D7415		19.9	21.1	19.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	16.9	14.7	
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	6.3	7.6	
(DIV)		. 10 . 111 02000	0.0	5.5	0.0		



OIL ANALYSIS REPORT

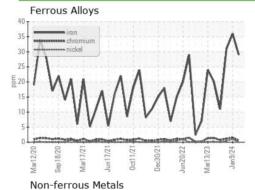


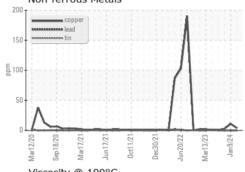


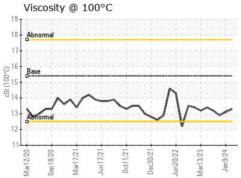
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

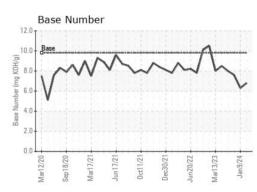
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.1	12.9

GRAPHS











Certificate L2367

Laboratory Sample No.

Lab Number : 06120656 Unique Number: 10929489 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0113466 Received : 18 Mar 2024

Tested : 19 Mar 2024 Diagnosed : 19 Mar 2024 - Wes Davis

GFL Environmental - 002 - Vance-Granville

241 Vanco Mill Rd Henderson, NC US 27537

T: (252)438-5333

F: (252)431-1635

Contact: Cameron King cameron.king@gflenv.com

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)

Report Id: GFL002 [WUSCAR] 06120656 (Generated: 03/19/2024 12:24:51) Rev: 1

Submitted By: Cameron King