

OIL ANALYSIS REPORT

(YA154631) 3863

Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 GAL)

Sample Rating Trend



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

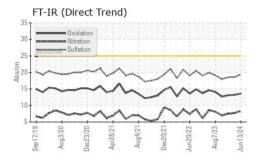
Fluid Condition

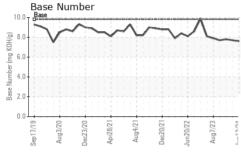
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

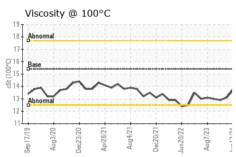
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124241	PCA0101753	PCA0101775
Sample Date		Client Info		13 Jun 2024	28 Feb 2024	09 Jan 2024
Machine Age	hrs	Client Info		11329	10756	10270
Oil Age	hrs	Client Info		573	486	561
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	ON	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 METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	11	12	13
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	5
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	8	13	9
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	65	69
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	667	689	827
Calcium	ppm	ASTM D5185m	1070	1422	1294	1086
Phosphorus	ppm	ASTM D5185m	1150	1001	968	927
Zinc	ppm	ASTM D5185m	1270	1173	1211	1170
Sulfur	ppm	ASTM D5185m	2060	3577	3400	2838
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	4
		A OTHER DELOS		_	A	<1
Sodium	ppm	ASTM D5185m		3	4	< 1
Sodium Potassium	ppm	ASTM D5185m ASTM D5185m	>20	6	4	1
			>20 limit/base			
Potassium		ASTM D5185m		6	4	1
Potassium INFRA-RED	ppm	ASTM D5185m method	limit/base	6 current	4 history1	1 history2
Potassium INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	limit/base	6 current 0.7	4 history1 0.7	1 history2 0.8
Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20	6 current 0.7 8.3	4 history1 0.7 7.7	1 history2 0.8 7.5
Potassium INFRA-RED Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >3 >20 >30	6 current 0.7 8.3 19.4	4 history1 0.7 7.7 18.6	1 history2 0.8 7.5 18.5



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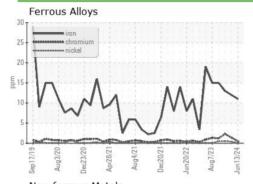


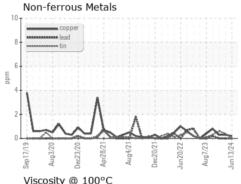


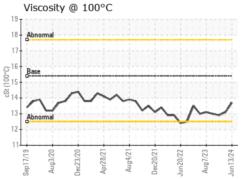
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

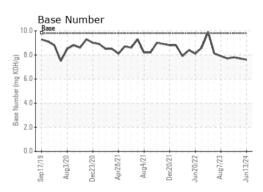
FLUID PROP	EKIIES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.1	12.9

GRAPHS













Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0124241 Lab Number : 06211252 Unique Number : 11084116

Received **Tested** Diagnosed

: 17 Jun 2024 : 18 Jun 2024 : 18 Jun 2024 - Wes Davis

GFL Environmental - 002 - Vance-Granville 241 Vanco Mill Rd Henderson, NC

US 27537 Contact: Cameron King cameron.king@gflenv.com

T: (252)438-5333

F: (252)431-1635

Test Package : FLEET Certificate 12367 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] 06211252 (Generated: 06/22/2024 01:18:46) Rev: 1

Submitted By: Cameron King