

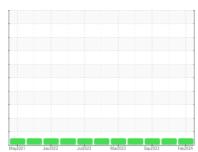
OIL ANALYSIS REPORT



(43348HA) 811006 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (39 QTS)



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

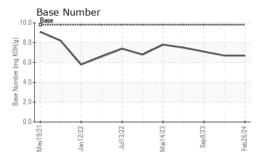
Fluid Condition

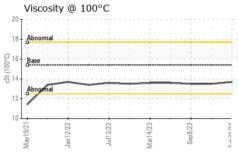
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		May2021	Janzozz Julzozz	Mar2023 Sep2023	Feb2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0096506	GFL0096489	GFL0061998	
Sample Date		Client Info		26 Feb 2024	05 Dec 2023	08 Sep 2023	
Machine Age	hrs	Client Info		8035	7448	6583	
Oil Age	hrs	Client Info		587	600	594	
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	
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	>120	7	8	11	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	1	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	<1	
Lead	ppm	ASTM D5185m	>40	2	0	0	
Copper	ppm	ASTM D5185m	>330	1	1	<1	
Tin	ppm	ASTM D5185m	>15	1	0	<1	
Vanadium	ppm	ASTM D5185m	710	0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
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ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	5	8	
Barium	ppm		0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	68	63	60	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	1121	970	917	
Calcium	ppm	ASTM D5185m	1070	1204	1082	1063	
Phosphorus	ppm	ASTM D5185m	1150	1128	954	931	
Zinc	ppm	ASTM D5185m	1270	1505	1273	1193	
Sulfur	ppm	ASTM D5185m	2060	3332	2792	3008	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	6	5	
Sodium	ppm	ASTM D5185m		3	6	5	
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.4	0.4	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.1	8.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.8	18.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.1	14.7	
Base Number (BN)	mg KOH/g	ASTM D2896		6.7	6.7	7.1	
(=)	39						



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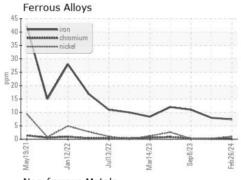


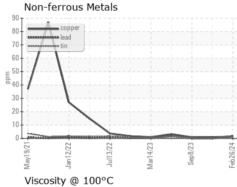


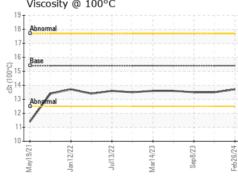
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

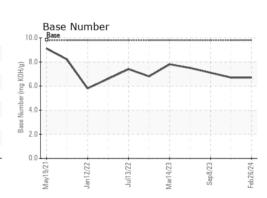
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.5	13.5	

GRAPHS













Laboratory Sample No.

: GFL0096506 Lab Number : 06106614 Unique Number : 10910111 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested** : 04 Mar 2024

Diagnosed : 04 Mar 2024 - Wes Davis

GFL Environmental - 656 - Culpeper Hauling 15490 Montanus Drive Culpeper, VA

ÚS 22701 Contact: Matt Hanna

mhanna@gflenv.com T: (540)727-0887

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)