

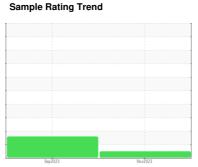
OIL ANALYSIS REPORT



GFL035 934042 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (42 QTS)





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

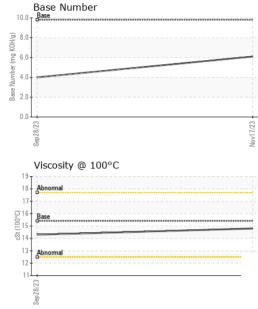
Fluid Condition

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

			Sep2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102299	GFL0071608	
Sample Date		Client Info		17 Nov 2023	28 Sep 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		300	600	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	16	40	
Chromium	ppm	ASTM D5185m	>20	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm		>20	2	2	
Lead	ppm	ASTM D5185m	>40		2	
Copper	ppm	ASTM D5185m		3	16	
Tin	ppm		>15	<1	2	
Vanadium	ppm	ASTM D5185m	710	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	8	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m	60	51	50	
Manganese	ppm		0	2	12	
Magnesium	ppm	ASTM D5185m	1010	532	755	
Calcium	ppm		1070	1450	1147	
Phosphorus	ppm	ASTM D5185m	1150	701	658	
Zinc	ppm	ASTM D5185m	1270	901	921	
Sulfur	ppm	ASTM D5185m	2060	2294	2313	
CONTAMINAN	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	<u>^</u> 29	
Sodium	ppm	ASTM D5185m		5	4	
Potassium	ppm	ASTM D5185m	>20	4	4	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	10.1	11.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	21.6	
					-	
FLUID DEGRAD	ATION	method.		current	historv1	historv2
FLUID DEGRAD		method	limit/base	current	history1	history2
FLUID DEGRAD Oxidation Base Number (BN)	ATION Abs/.1mm mg KOH/g	method *ASTM D7414 ASTM D2896	limit/base >25 9.8	current 17.3 6.1	history1 19.9 4.0	history2



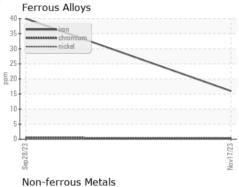
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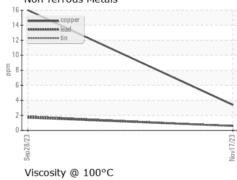


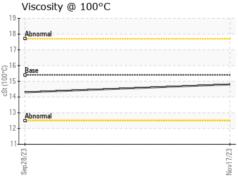
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID DDODE	DTIES					

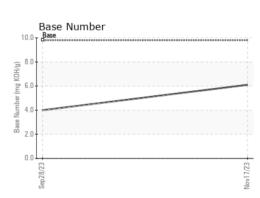
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.8	14.3	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10751149 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0102299 Received : 06012005 Diagnosed

: 20 Nov 2023 : 21 Nov 2023 Diagnostician : Don Baldridge

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)

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Contact: JORGE COSTA jorge.costa@gflenv.com T: (336)668-3712