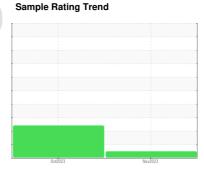


OIL ANALYSIS REPORT



GFL035 934053 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

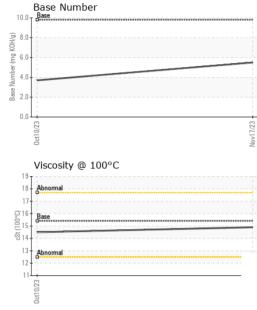
Fluid Condition

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

			002023	14072023		
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085161	GFL0071630	
Sample Date		Client Info		17 Nov 2023	10 Oct 2023	
	hrs	Client Info		0	0	
	hrs	Client Info		300	600	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
	JI N				<1.0	
Fuel		WC Method	>3.0	<1.0		
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	19	53	
Chromium	ppm	ASTM D5185m	>20	1	2	
Nickel	ppm	ASTM D5185m	>5	<1	2	
Titanium	ppm	ASTM D5185m	>2	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	<u>19</u>	
Lead	ppm	ASTM D5185m	>40	0	1	
Copper	ppm	ASTM D5185m	>330	4	18	
Tin	ppm	ASTM D5185m	>15	<1	2	
Vanadium	ppm	ASTM D5185m		0	0	
	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	11	6	
Barium	ppm	ASTM D5185m	0	0	5	
Molybdenum	ppm	ASTM D5185m	60	55	56	
Manganese	ppm	ASTM D5185m	0	2	12	
Magnesium	ppm	ASTM D5185m	1010	579	753	
Calcium	ppm	ASTM D5185m	1070	1584	1194	
Phosphorus	ppm	ASTM D5185m	1150	725	659	
	ppm	ASTM D5185m	1270	968	903	
Sulfur	ppm	ASTM D5185m	2060	2504	2248	
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	△ 32	
Sodium	ppm	ASTM D5185m		5	5	
Potassium	ppm	ASTM D5185m	>20	13	59	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0	0	
	Abs/cm	*ASTM D7624	>20	10.6	12.8	
	Abs/.1mm	*ASTM D7415	>30	20.4	23.5	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Oxidation /	Abs/.1mm	*ASTM D7414	>25	17.9	21.9	
	mg KOH/g	ASTM D2896	9.8	5.5	3.7	
Dase Mullipel (DIN)	ily NOR/y	79 LINI D5020	3.0	5.5	0.7	



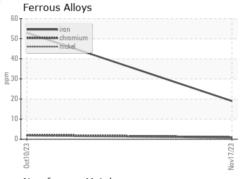
OIL ANALYSIS REPORT

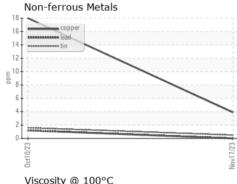


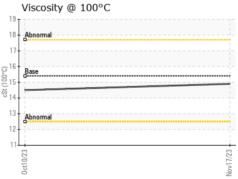
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance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

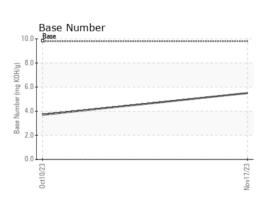
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.9	14.5	

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10751175

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0085161 : 06012031

Received Diagnosed

: 20 Nov 2023 : 21 Nov 2023 Diagnostician : Don Baldridge GFL Environmental - 035 - Greensboro

1236 Elon Place High Point, NC US 27263

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

Test Package : FLEET Certificate L2367 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)