

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (38 QTS)

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.

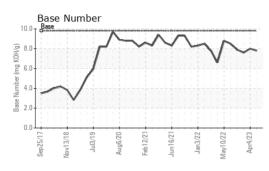
Fluid Condition

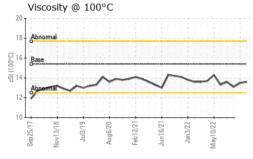
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0071603	GFL0071581	GFL0053150		
Sample Date		Client Info		04 Apr 2023	04 Apr 2023	13 Mar 2023		
Machine Age	hrs	Client Info		15774	15774	15774		
Oil Age	hrs	Client Info		600	600	600		
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		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>165	9	15	17		
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>4	0	0	0		
Titanium	ppm	ASTM D5185m	>2	0	0	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	4	3	3		
Lead	ppm	ASTM D5185m	>150	1	<1	0		
Copper	ppm	ASTM D5185m	>90	<1	<1	<1		
Tin	ppm	ASTM D5185m	>5	<1	<1	<1		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	0	3	3	10		
Barium	ppm	ASTM D5185m	0	0	<1	0		
Molybdenum	ppm	ASTM D5185m	60	65	71	60		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1010	893	1105	826		
Calcium	ppm	ASTM D5185m	1070	1145	1243	1111		
Phosphorus	ppm	ASTM D5185m	1150	1051	1194	927		
Zinc	ppm	ASTM D5185m	1270	1251	1469	1096		
Sulfur	ppm	ASTM D5185m	2060	3186	4057	3314		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>35	5	6	6		
Sodium	ppm	ASTM D5185m		3	5	5		
Potassium	ppm	ASTM D5185m	>20	3	2	<1		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>7.5	0.3	0.4	0.4		
	Abs/cm	*ASTM D7624	>20	8.0	9.4	9.0		
Nitration	A03/011							
	Abs/.1mm	*ASTM D7415	>30	19.1	20.0	19.9		
	Abs/.1mm		>30 limit/base	19.1 current	20.0 history1	19.9 history2		
Nitration Sulfation FLUID DEGRAD Oxidation	Abs/.1mm							

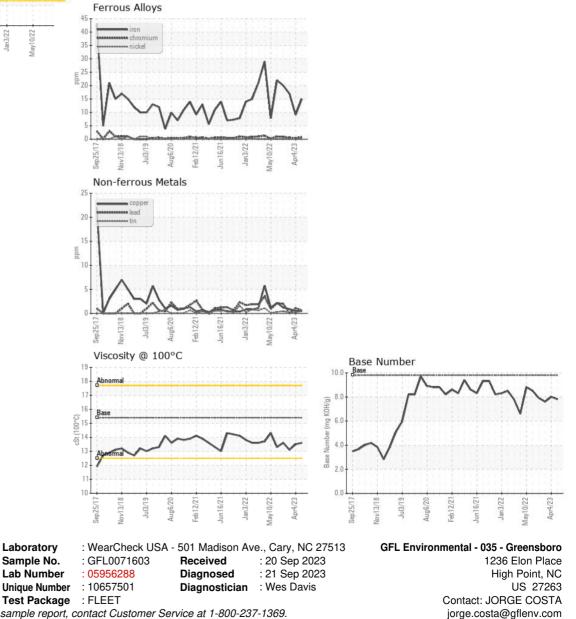


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.5	13.1
GRAPHS						





Certificate 12307 Test Package : FLEET 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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