

OIL ANALYSIS REPORT







Machine Id **7836M** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (

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

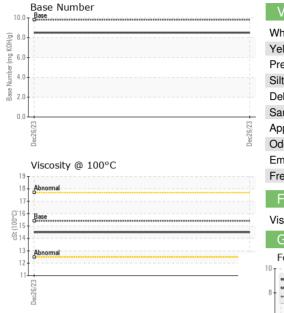
Fluid Condition

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

ON SHP 15W40 (- GAL)			Dec2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0105761		
Sample Date		Client Info		26 Dec 2023		
Machine Age	hrs	Client Info		2247		
Oil Age	hrs	Client Info		1609		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	5		
Chromium	ppm	ASTM D5185m	>5	0		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>30	5		
Lead	ppm	ASTM D5185m	>30	0		
Copper	ppm	ASTM D5185m	>150	<1		
Tin	ppm	ASTM D5185m	>5	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	58		
Manganese	ppm	ASTM D5185m	0	0		
Magnesium	ppm	ASTM D5185m	1010	930		
Calcium	ppm	ASTM D5185m	1070	1076		
Phosphorus	ppm	ASTM D5185m	1150	1033		
Zinc	ppm	ASTM D5185m	1270	1187		
Sulfur	ppm	ASTM D5185m	2060	3044		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3		
Sodium	ppm	ASTM D5185m	00	0		
Potassium	ppm	ASTM D5185m		<1		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	5.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1		
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5		



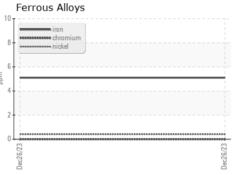
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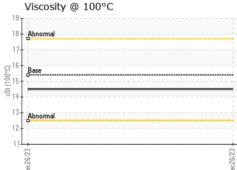
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

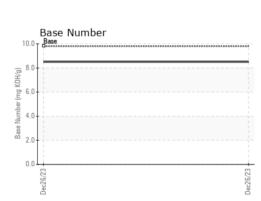
FLUID FNOF		memou			HISTOLAL	HISTOLYZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.5		

GRAPHS



10	Non-ferrous Metals	
10	copper	
8	accountage fill	
mdd		
4		
2	-	
0		-
	Dec26/23	Dec26/23
	Viscosity @ 100°C	







Certificate L2367

Laboratory Sample No. Lab Number

Unique Number : 10807333 Test Package : FLEET

: GFL0105761 : 06046725

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 28 Dec 2023 Diagnosed : 28 Dec 2023 Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)