

OIL ANALYSIS REPORT

Sample Rating Trend





Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

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.

	····,			Feb2024			
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0114390			
Sample Date		Client Info		26 Feb 2024			
Machine Age	hrs	Client Info		17891			
Oil Age	hrs	Client Info		17891			
Oil Changed		Client Info		Not Changd			
Sample Status				NORMAL			
CONTAMINATI	ON	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0			
Water		WC Method	>0.2	NEG			
Glycol		WC Method		NEG			
WEAR METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	6			
Chromium	ppm	ASTM D5185m	>20	0			
Nickel	ppm	ASTM D5185m	>5	<1			
Titanium	ppm	ASTM D5185m	>2	0			
Silver	ppm	ASTM D5185m	>2	0			
Aluminum	ppm	ASTM D5185m	>20	1			
Lead	ppm	ASTM D5185m	>40	<1			
Copper	ppm	ASTM D5185m	>330	<1			
Tin	ppm	ASTM D5185m	>15	<1			
Vanadium	ppm	ASTM D5185m		<1			
Cadmium	ppm	ASTM D5185m		0			
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	3			
Barium	ppm	ASTM D5185m	0	0			
Molybdenum	ppm	ASTM D5185m	60	58			
Manganese	ppm	ASTM D5185m	0	0			
Magnesium	ppm	ASTM D5185m	1010	1110			
Calcium	ppm	ASTM D5185m	1070	1216			
Phosphorus	ppm	ASTM D5185m	1150	1068			
Zinc	ppm	ASTM D5185m	1270	1475			
Sulfur	ppm	ASTM D5185m	2060	3452			
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3			
Sodium	ppm	ASTM D5185m		2			
Potassium	ppm	ASTM D5185m	>20	<1			
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.1			
Nitration	Abs/cm	*ASTM D7624	>20	8.0			
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5			
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.4			



OIL ANALYSIS REPORT

VISUAL





		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		
	/24	Appearance	scalar	*Visual	NORMI	NORMI		
	Feb 26	Odor	scalar	*Visual	NORMI	NORMI		
		Emulsified Water	scalar	*Visual		NEG		
С		Eree Water	scalar	*Visual	>0.L	NEG		
			Jouran	VIGUUI		nea		
		FLUID PROPE	RTIES	method	limit/base	current	history1	history2
		Visc @ 100°C	cSt	ASTM D445	15.4	13.2		
		GRAPHS						
		Ferrous Alloys						
	V CI J C	8						
	C. P.	nickel						
		6-						
		udd						
		4						
		2-						
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		III. Non forrous Motol	~		١Ľ.			
			s 					
		copper						
		8 - Bease lead						
		6-						
		E						
		4						
		2-						
		0						
		26/24			26/24			
		Feb			Feb			
		Viscosity @ 100°C				Base Number		
		19			10.0	Base		
		Id + Abnormal						
		1/+			(B/HC			
		D Base			¥ 6.0			
		E15-			nber (i			
		- 14			1.0 N			
		Abnormal			² 2.0	-		
		12						
		114			0.0	24		24 -
		-eb 2 6,			-eb26,	-eb26,		eb26/
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d	Laboratory	: WearCheck USA - 50	1 Madiso	on Ave., Cary	, NC 27513	GFL Envi	ronmental - 410	- Michigan West
ANAB	Sample No.	: GFL0114390	Recei	ived : 29) Feb 2024		3900	0 Van Born Rd
	Lab Number	: 06104150	Teste	d : 29	Feb 2024			Wayne, MI
TESTING LABORATORY	Unique Number	: 10902380	Diagr	nosed : 29	Feb 2024 - W	es Davis	c	US 48184
Certificate L2367	Test Package	: FLEET	ioo ot 1 C	00 007 1000	2		Contact	Belal Dgheish
* - Denotes ta	is sample report, est methods that	are outside of the ISO 1	00 al 1-0 7025 ccc	00-237-1308	, litation			(734)714-2340
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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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