

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 211017

Component Front Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- LTR)

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.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2																					
Sample Number		Client Info		GFL0110179	GFL0060489																						
Sample Date		Client Info		08 Jan 2024	16 Aug 2023																						
Machine Age	hrs	Client Info		25348	21759																						
Oil Age	hrs	Client Info		600	600																						
Oil Changed		Client Info		Changed	Changed																						
Sample Status				NORMAL	NORMAL																						
CONTAMINAT	ON	method	limit/base	current	history1	history2																					
Fuel		WC Method	>5	<1.0	<1.0																						
Water		WC Method	>0.2	NEG	NEG																						
Glycol		WC Method		NEG	NEG																						
WEAR METAL	S	method	limit/base	current	history1	history2																					
Iron	ppm	ASTM D5185m	>100	62	105																						
Chromium	ppm	ASTM D5185m	>20	2	6																						
Nickel	ppm	ASTM D5185m	>2	<1	<1																						
Titanium	ppm	ASTM D5185m	>2	<1	<1																						
Silver	ppm	ASTM D5185m	>2	0	<1																						
Aluminum	ppm	ASTM D5185m	>25	5	13																						
Lead	ppm	ASTM D5185m	>40	0	0																						
Copper	ppm	ASTM D5185m	>330	2	6																						
Tin	ppm	ASTM D5185m	>15	<1	0																						
Vanadium	ppm	ASTM D5185m		0	<1																						
Cadmium	ppm	ASTM D5185m		0	0																						
ADDITIVES		method	limit/base	current	history1	history2																					
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 2	current 111	history1 0	history2																					
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base 2 0	current 111 0	history1 0 0	history2 																					
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 2 0 50	current 111 0 9	history1 0 0 58	history2 																					
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 2 0 50 0	current 111 0 9 <1	history1 0 0 58 2	history2 																					
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ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 2 0 50 0 950 1050	current 111 0 9 <1 157 1748	history1 0 0 58 2 954 1096	history2																					
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 2 0 50 0 950 1050 995	Current 111 0 9 < 1 157 1748 924	history1 0 58 2 954 1096 993	history2																					
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base 2 0 50 0 950 1050 995 1180	current 111 0 9 <1 157 1748 924 1040	history1 0 58 2 954 1096 993 1221	history2																					
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base 2 50 0 950 1050 995 1180 2600	current 111 0 9 <1 157 1748 924 1040 3309	history1 0 58 2 954 1096 993 1221 3478	history2																					
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cSt (100°C) 11 Base

10 Abnormal 9 8 Aug16/23

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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	
	Mppearance	scalar	*Visual	NORML	NORML	NORML	
	Ödor	scalar	*Visual	NORML	NORML	NORML	
C	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPE	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	12.00	12.2	9.7	
	GRAPHS						
	Ferrous Alloys						
	120 iron						
	100 - http://www.nickel						
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Laboratory	: WearCheck USA -	501 Madi	son Ave., Ca	ry, NC 2751	3 GFL Envir	onmental - 660 -	Lynchburg Hauling
ANAB Sample No	. : GFL0110179	Recieved	d :11. od :14	Jan 2024		2410	Mayflower Drive
	ber : 10830013	Diagnos	tician : Dor	n Baldridge			US 24501
Certificate L2367 Test Packa	ge : FLEET					Contact:	Delbert Beasley
To discuss this sample repo	ort, contact Customer Serv	rice at 1-8	800-237-1369	Э.	c	lbeasley@cou	intyrecycling.net
* - Denotes test methods the	at are outside of the ISO 1	7025 scc	pe of accrea	litation.	(ICCM 100-0010)	Т	: (434)665-5998
Statements of conformity to S	peonications are based on t	пе знпріе	acceptance (JECISION TUIE	(JUGIVI 100:2012)		F:

Contact/Location: Delbert Beasley - GFL660