

Area (FAN294) Machine Id

424075

OIL ANALYSIS REPORT

Sample Rating Trend



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

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.

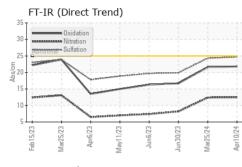
Fluid Condition

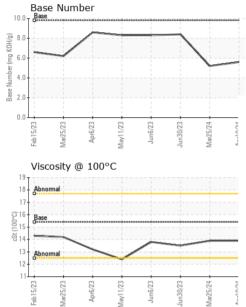
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111513	GFL0111549	GFL0083147
Sample Date		Client Info		10 Apr 2024	25 Mar 2024	30 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	50	45	12
Chromium	ppm	ASTM D5185m	>5	2	2	2
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	4	3
Lead	ppm	ASTM D5185m	>150	4	4	<1
Copper	ppm	ASTM D5185m	>90	69	56	8
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	11	12	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	58	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	820	823	987
Calcium	ppm	ASTM D5185m	1070	1201	1277	1117
Phosphorus	ppm	ASTM D5185m	1150	887	868	1092
Zinc	ppm	ASTM D5185m	1270	1095	1134	1344
Sulfur	ppm	ASTM D5185m	2060	2310	2547	3988
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	16	14	11
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	0	<1	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	1.6	1.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	12.5	12.4	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.7	24.3	19.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.8	21.6	16.7



OIL ANALYSIS REPORT





nd)		VISUAL		method	limit/base	current	history1	history2		
		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE		
		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE		
to a local statement of the second statement of the se		Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE		
	/	Silt	scalar	*Visual	NONE	NONE	NONE	NONE		
	A MARKAN AND A MARKAN	Debris	scalar	*Visual	NONE	NONE	NONE	NONE		
	110 ²⁰	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE		
May11/23 Jun6/23	Jun30/23 Mar25/24 Apr10/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML		
May	Jun Mai	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		
	\sim	Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	13.5		
		GRAPHS								
		Ferrous Alloys								
	13 + -	60 iron								
May11/23 Jun6/23	Jun30/23 Mar25/24	50 - chromium			/					
≥ ′	-, ≥ <	40		/						
C		톨 30								
		20		/						
		10								
			-							
~		eb 15/23	1/23 - 5/23 -		0/24					
		Feb15/23 Mar25/23 Apr6/23	May11/23 Jun6/23	Jun30/23 Mar25/24	Apr10/24					
		Non-ferrous Metal	s							
May11/23 Jun6/23	Jun30/23 Mar25/24	70 copper			/					
May	Mai	60 - Iead		1						
		50-		1						
		툴 ₃₀		/						
		² 30		/						
		20		/						
		10-								
			53 53	5 53	54					
		Feb 15/23 Mar25/23 Apr6/23	May11/23 Jun6/23	Jun30/23 Mar25/24	Apr10/24					
		⊥ Viscosity @ 100°C	2	רי צ	A					
		¹⁹ T			10	Base Number				
		18 - Abnormal	J		10.					
		17			(B/H	0				
		C ¹⁶ Base			20 G	0		\backslash		
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		Abnormal	/		ee 2.	.0 -				
		12-				0				
		eb 15/23 + lar25/23 + Apr6/23 -	lay11/23 - Jun6/23 -	0/23 -		eb 15/23 + lar25/23 + Apr6/23 +	lay11/23 - Jun6/23 -	0/23 - 5/24 - 0/24 -		
		Feb 15/23 Mar25/23 Apr6/23	May11/23 Jun6/23	Jun30/23 Mar25/24	Apr10/24	Feb 15/23 Mar25/23 Apr6/23	May11/23 Jun6/23	Jun30/23 Mar25/24 Apr10/24		
d	Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 074 - Douglas - Transu								
ANAB	Sample No.	: GFL0111513	Recei		Apr 2024		1219 Landfill Road			
TESTING LABORATORY	Lab Number Unique Number			Tested: 15 Apr 2024Diagnosed: 15 Apr 2024 - Wes Davis			Douglas, GA US 31533			
	Test Package		Diagi		.piever V		Contact: CURTIS JACOBS			
Certificate L2367		contact Customer Service at 1-800-237-1369. CURTIS.JACOBS@GFLENV.CC								
To discuss th	is sample report,					CUF		GFLENV.COM : (912)384-6001		

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Submitted By: JOSH MALONEY

Page 2 of 2