

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

834000

Natural Gas 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.

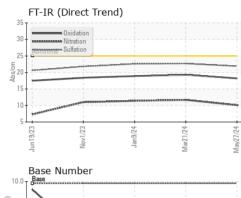
Fluid Condition

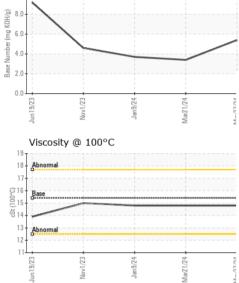
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121917	GFL0106804	GFL0092135
Sample Date		Client Info		27 May 2024	21 Mar 2024	09 Jan 2024
Machine Age	hrs	Client Info		2932	2389	1799
Oil Age	hrs	Client Info		2389	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	9	10	10
Chromium	ppm	ASTM D5185m	>4	<1	1	1
Nickel	ppm	ASTM D5185m	>2	<1	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	7	12	12
Lead	ppm	ASTM D5185m	>30	1	<1	<1
Copper	ppm	ASTM D5185m	>35	2	1	<1
Tin	ppm	ASTM D5185m	>4	<1	2	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	5	3
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	57	53	49
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	1010	562	554	542
Calcium	ppm	ASTM D5185m	1070	1661	1709	1486
Phosphorus	ppm	ASTM D5185m	1150	730	691	659
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060	952 2650	962 2948	955 2444
	ppm					
CONTAMINAN		method ASTM D5185m	limit/base	current	history1	history2
Silicon Sodium	ppm		>+100	6 7	5 8	5 3
Potassium	ppm	ASTM D5185m	× 20			
	ppm	ASTM D5185m	>20	21	37	41
INFRA-RED	24	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	00	0.1	0	0
Nitration	Abs/cm	*ASTM D7624		10.1	11.7	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	22.7	22.6
FLUID DEGRAD			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	19.3	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.4	3.4	3.7



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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	
an and have been and have b	Debris	scalar	*Visual	NONE	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE	
Mar21/24 May27/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML	
Man	Odor	scalar	*Visual	NORML	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG	
******************	Free Water	scalar	*Visual		NEG	NEG	NEG	
	FLUID PROPE		method	limit/base	current	history1	history2	
	Visc @ 100°C	cSt	ASTM D445	15.4	14.8	14.8	14.8	
	GRAPHS							
	Ferrous Alloys							
1/24	40 - iron							
Mar21/24 л.с. т.сл	35 - nickel							
	30		 					
	E ²⁵ ₂₀							
	15							
	10							
		Jan9/24 -	1/24 -	7/24 -				
	Jun 19/23 Nov1/23	Jan	Mar21/24	May27/24				
	Non-ferrous Meta	s						
Mar21/24 	14 copper							
Mai	12 - Lead							
	10							
	° 6							
	4							
	2	and an extension of the second	And a state of the					
				+-				
	Jun 19/23 Nov1/23	Jan 9/24	Mar21/24	May27/24				
	J Viscosity @ 100°C		×	ž				
	¹⁹	Base 10.0 - Base			Base Number			
	18 - Abnormal							
	17			(B/H 8.0				
	Distance (15)			(0)HOX (00) Bayes Number (00) Bayes Number (00) Bayes 200				
	215			nber (
				4.0 N 83				
	13 Abnormal	1	1	²⁰ 2.0)-			
	11							
		Jan 9/24 -	Mar21/24 -			Jan 9/24 -	1/24 -	
	Jun 19/23 Nov1/23	Jan	Mar2	May27/24	Jun 19/23 Nov1/23	Jan	Mar21/24 May27/24	
Laboratory	: WearCheck USA - 50				GFL Env	vironmental - 856		
Sample No. Lab Number	: GFL0121917 Recei : 06196294 Teste : 11058417 Diagr			1 May 2024 3 Jun 2024		8515 Highway 6 South Houston, TX		
Unique Number				3 Jun 2024 - Don	Baldridge		US 77083	
Test Package	: FLEET	_			Ū		olinar Zacarias	
sample report,	contact Customer Serv			9. ditation		pzacariascar	no@gflenv.com T·	

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)

Certificate L2367

Submitted By: Apolinar Zacarias Page 2 of 2

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