

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 084 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

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

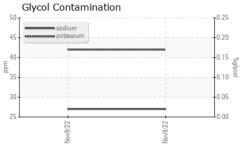
Fluid Condition

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

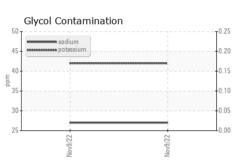
AL)				Nov2022		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0051271		
Sample Date		Client Info		09 Nov 2022		
Machine Age	hrs	Client Info		600		
Oil Age	hrs	Client Info		600		
Oil Changed	1110	Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	53		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m		2		
Lead	ppm	ASTM D5185m	>40	2		
Copper	ppm	ASTM D5185m		6		
Tin	ppm	ASTM D5185m	>15	2		
√anadium	ppm	ASTM D5185m	710	0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	60	64		
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	941		
Calcium	ppm	ASTM D5185m	1070	1076		
		ASTM D5185m	1150	984		
Phosphorus	ppm		1270			
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	2060	1248 3482		
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9		
Sodium	ppm	ASTM D5185m		27		
Potassium	ppm	ASTM D5185m	>20	42		
Glycol	%	*ASTM D2982	720	NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2		
Nitration	Abs/cm	*ASTM D7624		8.5		
Sulfation	Abs/.1mm	*ASTM D7624	>30	22.1		
FLUID DEGRAI			limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5		
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.6		
Dage Number (DIN)	ilig NOI1/g	AUTIVI DZ000	5.0	10.0		



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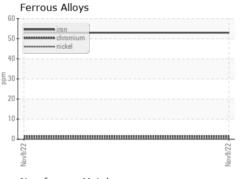
,	Viscosity @ 100°C	
19 18	Abnormal	
17-	0	
(2016+ (2001) 15+ 14-	Base	
% 14 - 13 -	Ahnomal	
12-	G ^M	
	- ZZ/GAON	
	rivers of the state of the stat	

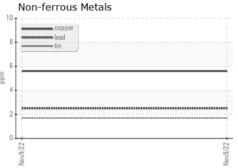


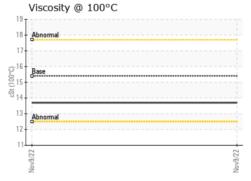
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML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

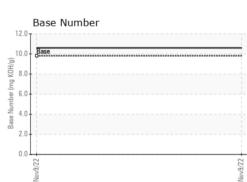
FLUID PROPE	RHES	method	limit/base		nistory1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7		

GRAPHS











Laboratory Sample No. Lab Number

: 05705794

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0051271

Received Diagnosed Unique Number : 10240369

: 01 Dec 2022 : 02 Dec 2022 Diagnostician : Don Baldridge

Contact:

GFL Environmental - 9999 - Moved No Longer Used Units

Test Package : FLEET (Additional Tests: Glycol) 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)

US

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