

OIL ANALYSIS REPORT

Machine Id

727099-361672

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (12 GA

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.

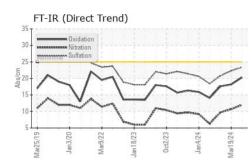
GAL)										
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		GFL0118177	GFL0109160	GFL0109174				
Sample Date		Client Info		08 Apr 2024	19 Mar 2024	05 Mar 2024				
Machine Age	hrs	Client Info		6991	6896	6763				
Dil Age	hrs	Client Info		600	150	300				
Dil Changed		Client Info		Changed	Not Changd	N/A				
Sample Status				NORMAL	NORMAL	ATTENTION				
CONTAMINAT	ION	method	limit/base	current	history1	history2				
-uel		WC Method		<1.0	<1.0	<1.0				
Water		WC Method	>0.2	NEG	NEG	NEG				
Glycol		WC Method	20.L	NEG	NEG	NEG				
WEAR METAL	S	method	limit/base	current	history1	history2				
		ASTM D5185m	>100	29	25	42				
Chromium	ppm	ASTM D5185m		-	25	42				
Nickel	ppm		>20	<1	<1	0				
	ppm	ASTM D5185m	>4	<1						
Fitanium	ppm	ASTM D5185m	0	0	<1	0				
Silver	ppm	ASTM D5185m	>3	0	0	0				
Aluminum	ppm	ASTM D5185m	>20	5	5	4				
_ead	ppm	ASTM D5185m	>40	0	1	0				
Copper	ppm	ASTM D5185m	>330	0	1	1				
Fin (and a d'inne	ppm	ASTM D5185m	>15	<1	1	0				
Vanadium	ppm	ASTM D5185m		0	<1	0				
Cadmium	ppm	ASTM D5185m		0	<1	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	0	1	0	6				
Barium	ppm	ASTM D5185m	0	0	1	0				
Nolybdenum	ppm	ASTM D5185m	60	60	63	59				
Manganese	ppm	ASTM D5185m	0	<1	<1	<1				
Vagnesium	ppm	ASTM D5185m	1010	991	939	875				
Calcium	ppm	ASTM D5185m	1070	1072	1164	966				
Phosphorus	ppm	ASTM D5185m	1150	1078	1093	983				
Zinc	ppm	ASTM D5185m	1270	1328	1260	1153				
Sulfur	ppm	ASTM D5185m	2060	3542	3207	2934				
CONTAMINAN	ITS	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>25	5	7	5				
Sodium	ppm	ASTM D5185m		6	3	98				
Potassium	ppm	ASTM D5185m	>20	1	2	5				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844	>3	1.4	1.3	0.9				
Nitration	Abs/cm	*ASTM D7624	>20	12.0	10.7	9.7				
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	22.3	20.8				
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2				
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.3	18.2	17.6				
Base Number (BN)	mg KOH/g			7.8	8.4	7.5				
		Denni Blood	5.0		0					

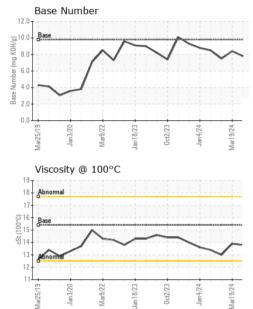
Sample Rating Trend

NORMAL



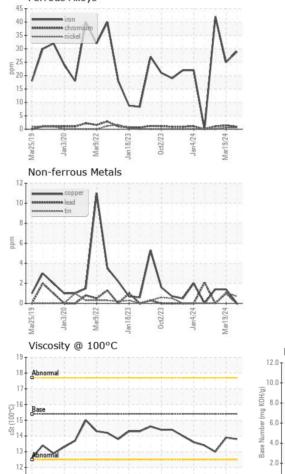
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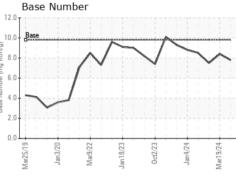




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
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
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	13.9	13.0
GRAPHS						

Ferrous Alloys





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 822 - Springfield Hauling Sample No. : GFL0118177 Received : 11 Apr 2024 2120 West Bennett Street Lab Number : 06146332 Tested : 12 Apr 2024 Springfield, MO Unique Number : 10976410 Diagnosed : 12 Apr 2024 - Wes Davis US 65807 Test Package : FLEET Contact: Dennis Moore Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dennis.moore@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (417)403-3641

Jan 18/23

Jan4/24 -

0ct2/23

Mar19/24 -

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Mar9/22

11-

Mar25/19

Jan3/20

Report Id: GFL822 [WUSCAR] 06146332 (Generated: 04/12/2024 16:34:52) Rev: 1

Submitted By: Dennis Moore

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