

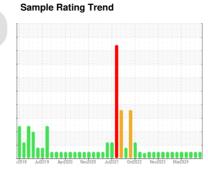
OIL ANALYSIS REPORT

(62A1N88) ALEXANDER CITY 10818

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (11 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

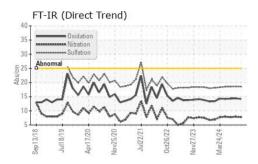
Fluid Condition

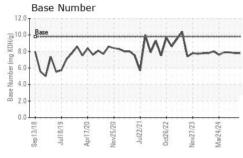
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

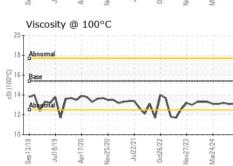
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SAMPLE INFORM	//ATION		limit/base		history1	history2	
Sample Number		Client Info		GFL0091347	GFL0079739	GFL0079740	
Sample Date	-	Client Info		17 Apr 2024	11 Apr 2024	10 Apr 2024	
Machine Age	hrs	Client Info		16624	16587	16575	
Oil Age	hrs	Client Info		2222	2185	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	10	10	11	
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	2	2	
Lead	ppm	ASTM D5185m	>25	0	<1	<1	
Copper	ppm	ASTM D5185m	>100	<1	<1	<1	
Tin	ppm	ASTM D5185m	>4	0	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	11	12	12	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	60	62	
Manganese	ppm	ASTM D5185m	0	<1	0	0	
Magnesium	ppm	ASTM D5185m	1010	832	881	887	
Calcium	ppm	ASTM D5185m	1070	1005	1087	1091	
Phosphorus	ppm	ASTM D5185m	1150	870	999	1013	
Zinc	ppm	ASTM D5185m	1270	1051	1185	1191	
Sulfur	ppm	ASTM D5185m	2060	3060	3371	3401	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	5	5	5	
Sodium	ppm	ASTM D5185m		29	32	31	
Potassium	ppm	ASTM D5185m	>20	0	16	16	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.3	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.9	7.8	
Sulfation	Abs/.1mm	*ASTM D7415		18.5	18.6	18.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.4	14.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	7.8	7.9	
2000 (DIV)			3.0	7.0	7.0	7.0	



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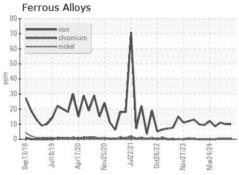


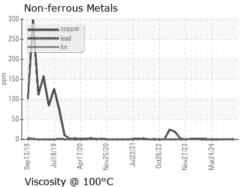


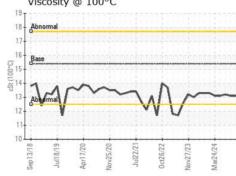
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

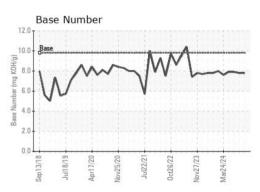
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.1	13.2

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06155565 Unique Number : 10990988

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0091347

Test Package : FLEET

Received : 22 Apr 2024 **Tested**

: 23 Apr 2024 Diagnosed : 23 Apr 2024 - Wes Davis

GFL Environmental - 172 - Montgomery-Alexander City-Tallahassee Multiple Sites

Montgomery, AL US 36108

Contact: BRANDON HURST brandonhurst@gflenv.com

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)

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