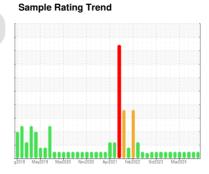


OIL ANALYSIS REPORT

(62A1N88) ALEXANDER CITY 10818

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)





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

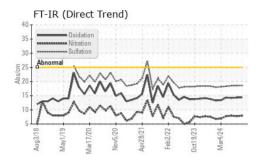
Fluid Condition

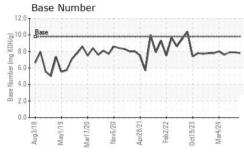
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

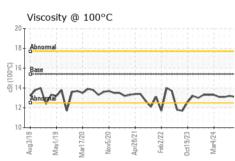
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0079739	GFL0079740	GFL0089926
Sample Date		Client Info		11 Apr 2024	10 Apr 2024	02 Apr 2024
Machine Age	hrs	Client Info		16587	16575	16507
Oil Age	hrs	Client Info		2185	0	2105
Oil Changed		Client Info		N/A	N/A	N/A
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	>75	10	11	8
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	2	2	2
Lead	ppm	ASTM D5185m	>25	- <1	<1	0
Copper	ppm	ASTM D5185m	>100	<1	<1	0
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	la la	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	0	12	12	13
Barium	ppm ppm		0	0	0	0
Molybdenum		ASTM D5185m	60	60	62	59
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	1010	881	887	862
Calcium	ppm	ASTM D5185m	1070	1087	1091	1033
Phosphorus	ppm	ASTM D5185m	1150	999	1013	942
Zinc	ppm	ASTM D5185m	1270	1185	1191	1140
	PPIII	710 TW DO 100111		1 100		
Sultur	maa	ASTM D5185m	2060	3371	3401	3069
Sulfur	ppm TS	ASTM D5185m method	2060 limit/base	3371 current	3401 history1	3069 history2
CONTAMINAN	TS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	TS ppm	method ASTM D5185m		current 5	history1	history2
CONTAMINAN Silicon Sodium	TS ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >25	current 5 32	history1 5 31	history2 5 32
CONTAMINAN Silicon Sodium Potassium	TS ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	current 5 32 16	history1 5 31 16	history2 5 32 0
CONTAMINAN Silicon Sodium Potassium INFRA-RED	TS ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >25 >20 limit/base	current 5 32 16 current	history1 5 31 16 history1	history2 5 32 0 history2
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >6	current 5 32 16 current 0.3	history1 5 31 16 history1 0.3	history2 5 32 0 history2 0.3
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	TS ppm ppm ppm Abs/cm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >25	current 5 32 16 current 0.3 7.9	history1 5 31 16 history1 0.3 7.8	history2 5 32 0 history2 0.3 7.9
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	limit/base >25 >20 limit/base >6	current 5 32 16 current 0.3	history1 5 31 16 history1 0.3	history2 5 32 0 history2 0.3
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	limit/base >25	current 5 32 16 current 0.3 7.9	history1 5 31 16 history1 0.3 7.8	history2 5 32 0 history2 0.3 7.9
CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base >25	current 5 32 16 current 0.3 7.9 18.6	history1 5 31 16 history1 0.3 7.8 18.5	history2 5 32 0 history2 0.3 7.9 18.5

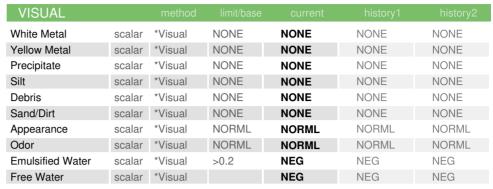


OIL ANALYSIS REPORT



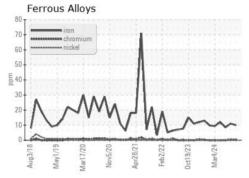


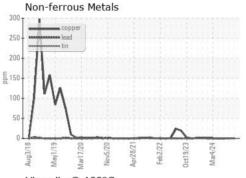


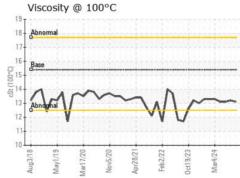


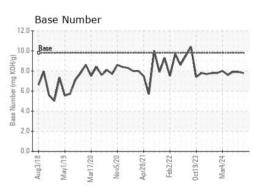
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.2	13.1

GRAPHS













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06150901 Unique Number : 10980979

: GFL0079739 Test Package : FLEET

Received **Tested** Diagnosed

: 16 Apr 2024 : 17 Apr 2024

: 17 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. st - 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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F: