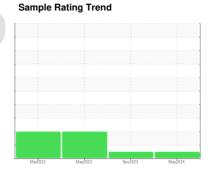


OIL ANALYSIS REPORT



(BD33494) 913029 Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 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

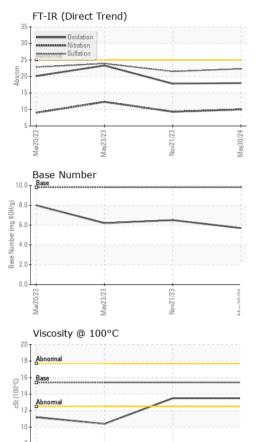
Fluid Condition

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124818	GFL0097729	GFL0072910
Sample Date		Client Info		30 May 2024	21 Nov 2023	23 May 2023
Machine Age	hrs	Client Info		2775	2798	1397
Oil Age	hrs	Client Info		534	700	612
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	34	34	84
Chromium	ppm	ASTM D5185m	>20	1	<1	2
	ppm	ASTM D5185m	>5	3	7	11
	ppm	ASTM D5185m	>2	<1	0	<1
	ppm	ASTM D5185m	>2	<1	0	0
	ppm	ASTM D5185m	>20	3	<1	5
		ASTM D5185m	>40	<1	<1	<1
	ppm			29		
	ppm	ASTM D5185m	>330		37	74
	ppm	ASTM D5185m	>15	2	<1	5
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	1	88
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	65	121
Manganese	ppm	ASTM D5185m	0	<1	<1	5
Magnesium	ppm	ASTM D5185m	1010	932	1031	725
Calcium	ppm	ASTM D5185m	1070	1098	1245	1374
Phosphorus	ppm	ASTM D5185m	1150	1101	1063	704
Zinc	ppm	ASTM D5185m	1270	1254	1448	924
Sulfur	ppm	ASTM D5185m	2060	2579	2614	2589
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	△ 63
Sodium	ppm	ASTM D5185m		2	4	3
Potassium	ppm	ASTM D5185m	>20	4	0	8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.2	0.9	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.0	9.3	12.3
	Abs/.1mm	*ASTM D7415	>30	22.3	21.5	23.9
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	17.8	23.3
	mg KOH/g	ASTM D2896	. =-	5.7	6.5	6.2
Dage (DIV)	mg Norry	7.0 TWI D2000	0.0	0.7	0.0	0.2



OIL ANALYSIS REPORT



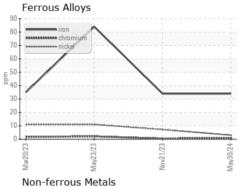
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

13.5

13.5

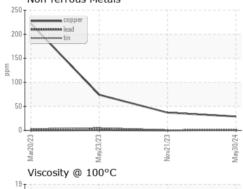
0.4

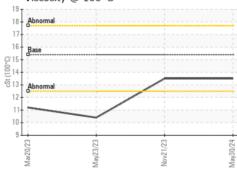
Visc @ 100°C **GRAPHS**

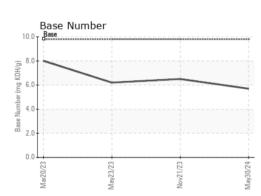


cSt

ASTM D445 15.4











Certificate 12367

Laboratory Sample No. Unique Number : 11069695

Test Package : FLEET

: GFL0124818 Lab Number : 06202234

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Jun 2024 **Tested** : 10 Jun 2024 Diagnosed

: 10 Jun 2024 - Wes Davis

GFL Environmental - 405 - Arbor Hills 7811 Chubb Rd NORTHVILLE, MI US 48168

Contact: Anthony Hopkins ahopkins@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)

T:

F: