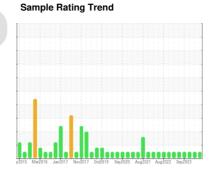


OIL ANALYSIS REPORT



Area (YA150020) 10618 Diesel Engine

PETRO CANADA DURON SHP 15W40 (5 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

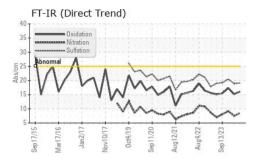
Fluid Condition

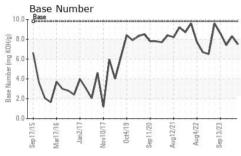
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

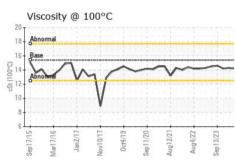
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0118408	GFL0098143	GFL0098099	
Sample Date		Client Info		21 May 2024	07 Feb 2024	20 Dec 2023	
Machine Age	hrs	Client Info		14699	14699	14699	
Oil Age	hrs	Client Info		215	215	476	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	NC	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	3	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	16	10	20	
Chromium	ppm	ASTM D5185m	>20	<1	<1	2	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	2	6	
Lead	ppm	ASTM D5185m	>40	1	0	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	2	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m	710	0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	2	3	3	
Barium	ppm		0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	56	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	984	909	999	
Calcium	ppm	ASTM D5185m	1070	1061	915	1180	
Phosphorus	ppm	ASTM D5185m	1150	1059	1006	1126	
Zinc	ppm	ASTM D5185m	1270	1284	1223	1375	
Sulfur	ppm	ASTM D5185m	2060	3399	2795	3188	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	7	4	10	
Sodium	ppm	ASTM D5185m		1	<1	2	
Potassium	ppm	ASTM D5185m	>20	3	<1	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.4	0.4	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	8.5	7.5	9.2	
Sulfation	Abs/.1mm	*ASTM D7024	>30	19.1	18.9	20.5	
FLUID DEGRADATION method limit/base current history1 history2							
			> 2F		•	•	
	Abs/.1mm	*ASTM D7414	>25	16.1	15.2	17.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	8.3	7.4	



OIL ANALYSIS REPORT



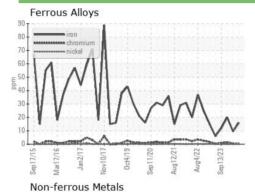


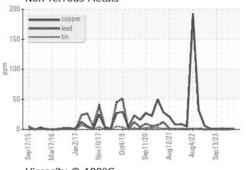


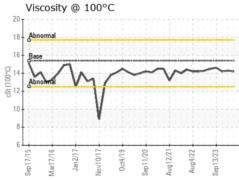
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

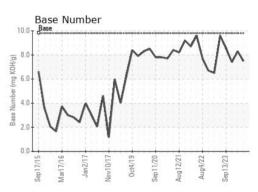
FLUID PROP	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.3	14.2

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06187035 Unique Number : 11043787

: GFL0118408 Test Package : FLEET

Received : 21 May 2024 **Tested** : 23 May 2024

Diagnosed : 23 May 2024 - Wes Davis

GFL Environmental - 017 - Durham

148 Stone Park Court Durham, NC

US 27703 Contact:

bill.waring@wearcheck.com T: (919)596-1363

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)

F: (919)598-1852