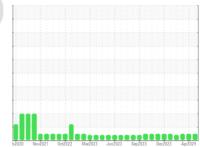


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



(ECU365)
2869
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (7 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

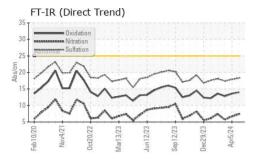
Fluid Condition

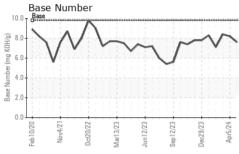
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

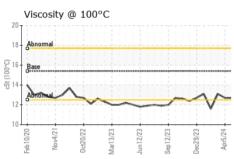
	4ATION	ام مالم مما	1::-	aa.	hinton d	h:ata m .O	
SAMPLE INFORM	/IATION		limit/base		history1	history2	
Sample Number		Client Info		GFL0118076	GFL0115721	GFL0115764	
Sample Date		Client Info		24 Apr 2024	05 Apr 2024	25 Mar 2024	
Machine Age	hrs	Client Info		3623	3479	3319	
Oil Age	hrs	Client Info		436	292	132	
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd	
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	3	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>165	12	10	8	
Chromium	ppm	ASTM D5185m	>5	1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>20	4	3	2	
Lead	ppm	ASTM D5185m	>150	1	<1	<1	
Copper	ppm	ASTM D5185m	>90	2	2	1	
Tin	ppm	ASTM D5185m	>5	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		<1	<1	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	7	8	10	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	64	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	932	905	893	
Calcium	ppm	ASTM D5185m	1070	1108	1100	1093	
Phosphorus	ppm	ASTM D5185m	1150	1177	994	991	
Zinc	ppm	ASTM D5185m	1270	1248	1206	1170	
Sulfur	ppm	ASTM D5185m	2060	3658	3068	3199	
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	6	5	4	
Sodium	ppm	ASTM D5185m		4	2	1	
Potassium	ppm	ASTM D5185m	>20	5	5	5	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.7	5.7	
Sulfation	Abs/.1mm	*ASTM D7415		18.3	17.9	17.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	13.6	12.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	8.2	8.4	
2000 (DIV)	ing nong		3.0	7.0	0.2	0.1	



OIL ANALYSIS REPORT



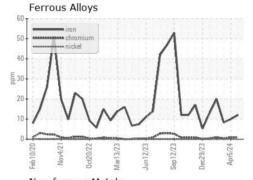


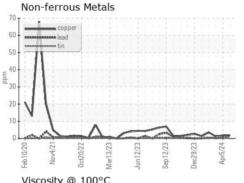


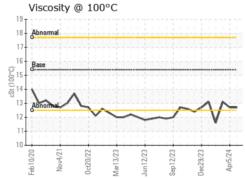
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

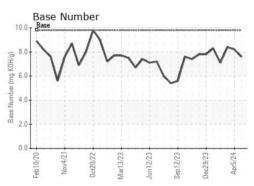
FLUID PROP	EKIIES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	12.7	13.1

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0118076 Lab Number : 06161112 Unique Number : 10996535 Test Package : FLEET

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Apr 2024

Tested : 29 Apr 2024 Diagnosed : 29 Apr 2024 - Wes Davis

GFL Environmental - 010 - Stockbridge

1280 Rum Creek Parkway Stockbridge, GA

US 30281

Contact: JOSHUA TINKER joshuatinker@gflenv.com

* - 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:

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