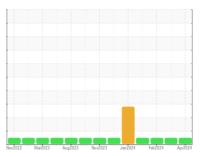


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
719005
Component

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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

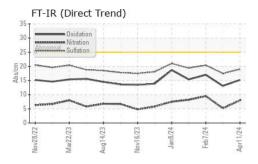
Fluid Condition

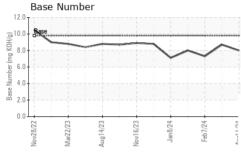
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

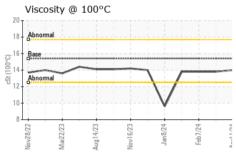
une)							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0115850	GFL0111010	GFL0111007	
Sample Date		Client Info		11 Apr 2024	20 Feb 2024	07 Feb 2024	
Machine Age	hrs	Client Info		2052	1793	1733	
Oil Age	hrs	Client Info		787	0	468	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<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	>100	18	5	32	
Chromium	ppm	ASTM D5185m	>20	<1	0	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	<1	5	
Lead	ppm	ASTM D5185m	>40	<1	0	<1	
Copper	ppm	ASTM D5185m	>330	<1	<1	2	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	3	10	25	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	67	63	98	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	940	900	870	
Calcium	ppm	ASTM D5185m	1070	1137	1094	1014	
Phosphorus	ppm	ASTM D5185m	1150	1018	1004	938	
Zinc	ppm	ASTM D5185m	1270	1189	1166	1202	
Sulfur	ppm	ASTM D5185m	2060	3440	3036	2803	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	2	7	
Sodium	ppm	ASTM D5185m		<1	<1	1	
Potassium	ppm	ASTM D5185m	>20	1	<1	15	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.2	0.9	
Nitration	Abs/cm	*ASTM D7624	>20	8.0	5.2	9.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	17.5	20.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	13.1	17.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	8.7	7.3	
(214)							



OIL ANALYSIS REPORT



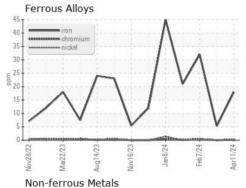


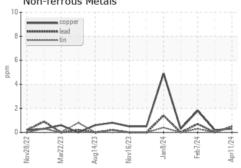


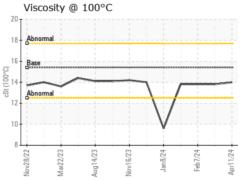
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

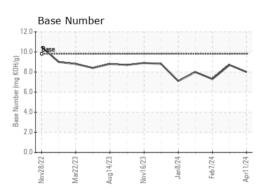
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.8	13.8	

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06153961 Unique Number : 10989384

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0115850

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

Received : 19 Apr 2024 **Tested** : 22 Apr 2024 Diagnosed

: 22 Apr 2024 - Wes Davis

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine) 13737 Plant Rd Childersburg, AL

US 35044 Contact: JONATHAN WILLIAMS jonathan.williams@gflenv.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: