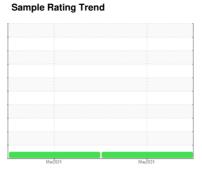


OIL ANALYSIS REPORT







Machine Id 527106 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Sample only, out of service)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

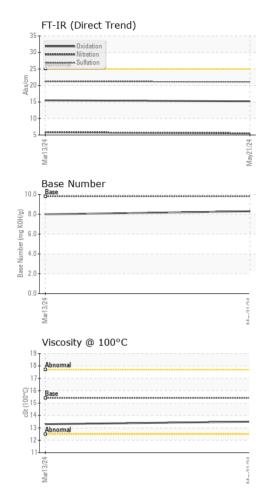
Fluid Condition

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

iAL)		L	Mar2024			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116214	GFL0101657	
Sample Date		Client Info		21 May 2024	13 Mar 2024	
Machine Age	mls	Client Info		708683	708634	
Dil Age	mls	Client Info		708683	0	
Oil Changed	0	Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel	1011	WC Method	>5	<1.0	<1.0	
Vater		WC Method	>0.2	VEG	NEG	
Glycol		WC Method	>0.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	18	16	
Chromium	ppm	ASTM D5185m	>20	1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	
ītanium	ppm	ASTM D5185m		1	1	
Silver	ppm	ASTM D5185m	>3	<1	0	
Aluminum	ppm	ASTM D5185m	>20	6	7	
ead	ppm	ASTM D5185m	>40	<1	1	
Copper	ppm	ASTM D5185m	>330	6	6	
īn	ppm	ASTM D5185m	>15	<1	1	
/anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	389	334	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	96	103	
Manganese	ppm	ASTM D5185m	0	<1	<1	
//agnesium	ppm	ASTM D5185m	1010	648	640	
Calcium	ppm	ASTM D5185m	1070	1499	1535	
Phosphorus	ppm	ASTM D5185m	1150	743	774	
Zinc	ppm	ASTM D5185m	1270	866	915	
Sulfur	ppm	ASTM D5185m	2060	2892	2915	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	13	
Sodium	ppm	ASTM D5185m		2	3	
Potassium	ppm	ASTM D5185m	>20	2	3	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	5.5	5.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.2	
FLUID DEGRAI	N <u>OI</u> TAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	15.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.3	8.0	
Dasc Hamber (DIV)	mg North	7.0 TW D2000	0.0	0.0	0.0	



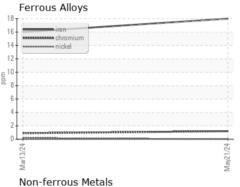
OIL ANALYSIS REPORT

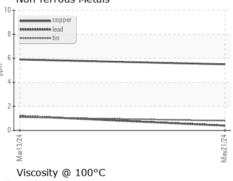


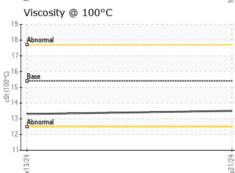
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
	DTIES				111	1:

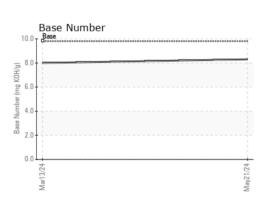
FLUID PROPI	ERITES	method	limit/base		history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.3	

GRAPHS













Sample No.

: GFL0116214 Lab Number : 06191624 Unique Number : 11048376

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 **Tested** : 29 May 2024

Diagnosed : 29 May 2024 - Angela Borella

GFL Environmental - 625 - Harrison Hauling

2480 S Clare Ave Clare, MI US 48617

Contact: Glenda Standen

gstanden@gflenv.com

Test Package : FLEET Certificate 12367 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.

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