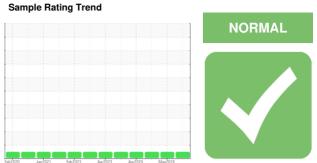


OIL ANALYSIS REPORT

D





(ECE744)
12048
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 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

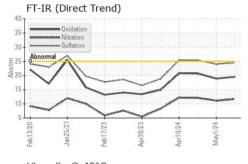
Fluid Condition

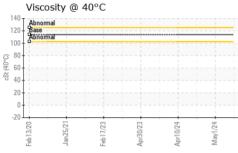
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

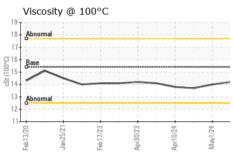
•	•								
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2			
Sample Number		Client Info		GFL0111527	GFL0111575	GFL0111516			
Sample Date		Client Info		13 Jun 2024	01 May 2024	17 Apr 2024			
Machine Age	mls	Client Info		0	0	0			
Oil Age	mls	Client Info		0	0	0			
Oil Changed		Client Info		N/A	N/A	N/A			
Sample Status				NORMAL	NORMAL	NORMAL			
CONTAMINAT	ION	method	limit/base	current	history1	history2			
Fuel		WC Method	>3.0	<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	>120	38	24	36			
Chromium	ppm	ASTM D5185m	>20	2	<1	1			
Nickel	ppm	ASTM D5185m	>5	<1	0	0			
Titanium	ppm	ASTM D5185m	>2	<1	0	0			
Silver	ppm	ASTM D5185m	>2	<1	0	0			
Aluminum	ppm	ASTM D5185m	>20	10	6	9			
Lead	ppm	ASTM D5185m	>40	2	<1	0			
Copper	ppm	ASTM D5185m	>330	2	2	3			
Tin	ppm	ASTM D5185m		1	0	<1			
Vanadium	ppm	ASTM D5185m		<1	0	0			
Cadmium	ppm	ASTM D5185m		<1	0	0			
ADDITIVES		method	limit/base	current	history1	history2			
Boron	ppm	ASTM D5185m	0	4	3	5			
Barium	ppm	ASTM D5185m	0	<1	0	0			
Molybdenum	ppm	ASTM D5185m	60	64	55	60			
Manganese	ppm	ASTM D5185m	0	1	1	1			
Magnesium	ppm	ASTM D5185m	1010	795	753	760			
Calcium	ppm	ASTM D5185m	1070	1340	1203	1360			
Phosphorus	ppm	ASTM D5185m	1150	931	866	828			
Zinc	ppm	ASTM D5185m	1270	1143	1066	1060			
Sulfur	ppm	ASTM D5185m	2060	2491	2889	2745			
CONTAMINANTS method limit/base current history1 history2									
Silicon	ppm	ASTM D5185m	>25	11	6	10			
Sodium	ppm	ASTM D5185m		4	4	3			
Potassium	ppm	ASTM D5185m	>20	11	8	8			
INFRA-RED		method	limit/base	current	history1	history2			
Soot %	%	*ASTM D7844	>4	1.3	1.1	1.3			
Nitration	Abs/cm	*ASTM D7624	>20	11.7	11.1	12.1			
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	24.0	25.4			
FLUID DEGRADATION method limit/base current history1 history2									
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	18.9	20.7			
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.5	5.4	4.4			
2000 Hambor (DIV)	mg nong	. 10 1111 DE000	5.0	0.0	0.1				

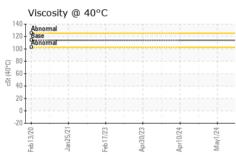


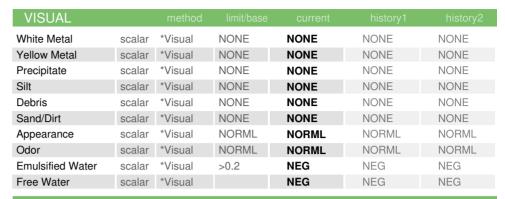
OIL ANALYSIS REPORT





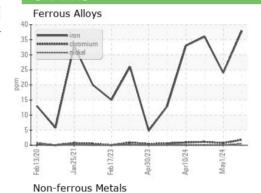


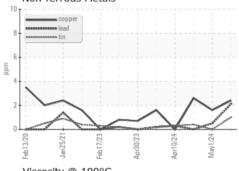


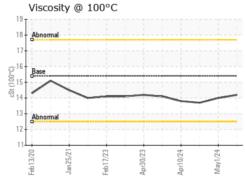


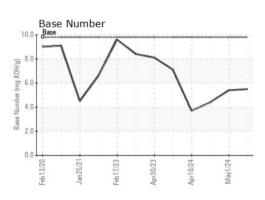
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.0	13.7

GRAPHS













Laboratory Sample No.

Lab Number : 06226005 Unique Number : 11109498

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0111527 Received

: 02 Jul 2024 **Tested** : 05 Jul 2024 Diagnosed

: 05 Jul 2024 - Jonathan Hester

GFL Environmental - 073 - Warner Robins - Transwaste 155 Story Road Warner Robins, GA US 31093 Contact: JOSH MALONEY

jmaloney@gflenv.com

Test Package : FLEET (Additional Tests: KV40) 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: F: