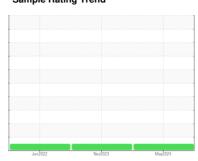


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
226021
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

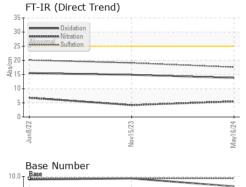
Fluid Condition

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

Jun2022 Nov2023 May2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100418	GFL0095367	GFL0052989
Sample Date		Client Info		16 May 2024	15 Nov 2023	08 Jun 2022
Machine Age	hrs	Client Info		28527	28309	27838
Oil Age	hrs	Client Info		218	2	210
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.2	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	30	21	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	3	2	2
Lead	ppm	ASTM D5185m	>40	4	2	2
Copper	ppm	ASTM D5185m	>330	4	3	<1
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	23	122	99
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	52	72
Manganese	ppm	ASTM D5185m	0	6	4	<1
Magnesium	ppm	ASTM D5185m	1010	904	411	798
Calcium	ppm	ASTM D5185m	1070	1199	1699	1269
Phosphorus	ppm	ASTM D5185m	1150	1076	910	937
Zinc	ppm	ASTM D5185m	1270	1236	1196	1111
Sulfur	ppm	ASTM D5185m	2060	3593	3139	3002
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	9	4
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.4
Nitration	Abs/cm	*ASTM D7624	>20	5.5	4.2	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	19.1	20.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	14.9	15.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	9.8	9.7



OIL ANALYSIS REPORT



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 PROPEI	RTIES	method				history2	

13.3

11.9

14.2

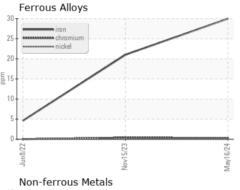
ASTM D445 15.4

10.07			 	 	
8.0					
6.0					
4.0					
2.0					
0.0		- 33			
100		15/2			

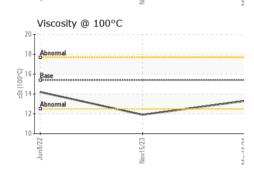


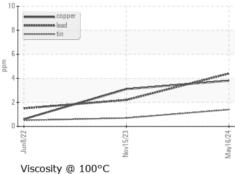
Visc @ 100°C

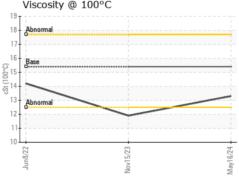
VISUAL

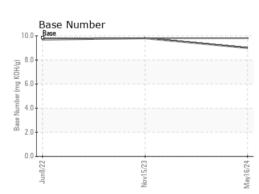


cSt













Laboratory

Sample No. Lab Number : 06187135

Unique Number : 11043887

: GFL0100418

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 May 2024 **Tested** : 23 May 2024 Diagnosed

: 23 May 2024 - Wes Davis

GFL Environmental - 900 - Antigo HC 1715 Deleglise St.

Antigo, WI US 54409 Contact: Kirk Koss

kirk.koss@gflenv.com T: (715)571-2784

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