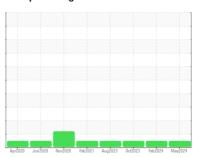


OIL ANALYSIS REPORT

Sample Rating Trend







7008A Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

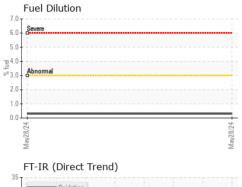
Fluid Condition

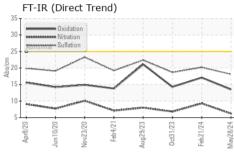
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

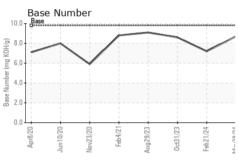
April 200 Juni 2020 Novi 2020 Febru 201 Aug 2023 Gebru 2023 Febru 2024 May 2024										
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2				
Sample Number		Client Info		GFL0101007	GFL0092827	GFL0092753				
Sample Date		Client Info		28 May 2024	21 Feb 2024	31 Oct 2023				
Machine Age	hrs	Client Info		7428	7428	0				
Oil Age	hrs	Client Info		0	7428	0				
Oil Changed		Client Info		Not Changd	N/A	N/A				
Sample Status				NORMAL	NORMAL	NORMAL				
CONTAMINAT	TION	method	limit/base	current	history1	history2				
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	>90	18	31	17				
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1				
Nickel	ppm	ASTM D5185m	>2	0	<1	0				
Titanium	ppm	ASTM D5185m	>2	0	<1	<1				
Silver	ppm	ASTM D5185m	>2	0	0	0				
Aluminum	ppm	ASTM D5185m	>20	2	4	3				
Lead	ppm	ASTM D5185m	>40	0	0	0				
Copper	ppm	ASTM D5185m	>330	1	2	<1				
Tin	ppm	ASTM D5185m	>15	0	<1	<1				
Vanadium	ppm	ASTM D5185m	>10	0	0	0				
Cadmium	ppm	ASTM D5185m		0	0	0				
ADDITIVES		method	limit/base	current	history1	history2				
Boron	ppm	ASTM D5185m	0	0	6	3				
Barium	ppm	ASTM D5185m	0	0	<1	0				
Molybdenum	ppm	ASTM D5185m	60	62	65	64				
Manganese	ppm	ASTM D5185m	0	<1	1	<1				
Magnesium	ppm	ASTM D5185m	1010	931	884	1024				
Calcium	ppm	ASTM D5185m	1070	1109	1048	1161				
Phosphorus	ppm	ASTM D5185m	1150	1044	944	1164				
Zinc	ppm	ASTM D5185m	1270	1190	1117	1425				
Sulfur	ppm	ASTM D5185m	2060	3424	2650	3157				
CONTAMINAN	NTS	method	limit/base	current	history1	history2				
Silicon	ppm	ASTM D5185m	>25	<1	5	3				
Sodium	ppm	ASTM D5185m		2	6	1				
Potassium	ppm	ASTM D5185m	>20	0	4	3				
Fuel	%	ASTM D3524	>3.0	0.3	<1.0	<1.0				
INFRA-RED		method	limit/base	current	history1	history2				
Soot %	%	*ASTM D7844	>6	0.3	0.5	0.3				
Nitration	Abs/cm	*ASTM D7624	>20	6.2	9.3	6.8				
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	20.2	18.7				
FLUID DEGRADATION method limit/base current history1 history2										
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	17.1	14.3				
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	7.2	8.6				
Dago Humber (DIN)	mg Norly	, 10 TWI DZ000	3.0	0.1	1.6	0.0				

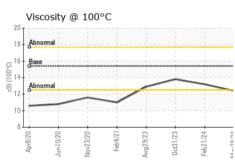


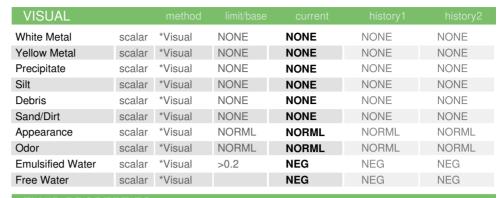
OIL ANALYSIS REPORT





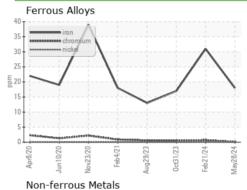


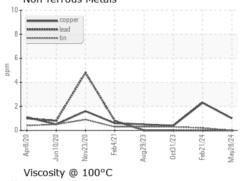


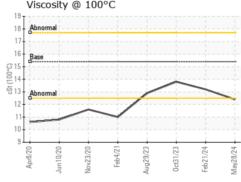


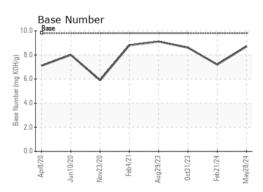
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	13.2	13.8	

GRAPHS













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0101007 Lab Number : 06197244 Unique Number : 11059367

Received : 03 Jun 2024 **Tested** : 05 Jun 2024

Diagnosed : 05 Jun 2024 - Wes Davis Test Package: FLEET (Additional Tests: FuelDilution, PercentFuel)

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

 st - 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)

GFL Environmental - 455 - Flint

2051 W. Bristol Rd Flint Township, MI US 48507

Contact: MARK WOMBLE mwomble@gflenv.com T: (586)825-9514