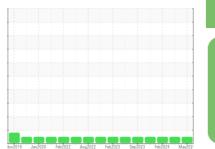


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

429055-402460

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

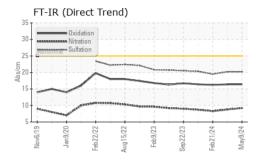
Fluid Condition

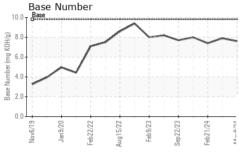
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

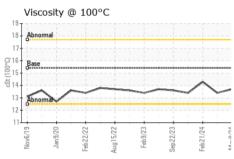
GAL) 40/2019 Jan/2020 Feb/2022 Aug/2022 Feb/2023 San/2023 Feb/2024 Man/202-							
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0117807	GFL0114415	GFL0099275	
Sample Date		Client Info		09 May 2024	26 Feb 2024	21 Feb 2024	
Machine Age	mls	Client Info		218981	12567	0	
Oil Age	mls	Client Info		0	0	0	
Oil Changed		Client Info		Changed	Changed	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ΓΙΟΝ	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	>110	10	6	9	
Chromium	ppm	ASTM D5185m	>4	<1	0	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>2	<1	0	0	
Aluminum	ppm	ASTM D5185m	>25	1	<1	2	
Lead	ppm	ASTM D5185m	>45	2	0	1	
Copper	ppm	ASTM D5185m	>85	<1	0	<1	
Tin	ppm	ASTM D5185m	>4	<1	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	10	8	3	
Barium	ppm	ASTM D5185m	0	0	1	0	
Molybdenum	ppm	ASTM D5185m	60	60	62	55	
Manganese	ppm	ASTM D5185m	0	<1	0	<1	
Magnesium	ppm	ASTM D5185m	1010	933	981	883	
Calcium	ppm	ASTM D5185m	1070	1096	1056	1022	
Phosphorus	ppm	ASTM D5185m	1150	1028	1073	981	
Zinc	ppm	ASTM D5185m	1270	1212	1255	1139	
Sulfur	ppm	ASTM D5185m	2060	3270	2755	2842	
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	7	3	3	
Sodium	ppm	ASTM D5185m		5	2	4	
Potassium	ppm	ASTM D5185m	>20	4	0	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.8	8.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.2	19.5	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	16.4	16.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.9	7.4	



OIL ANALYSIS REPORT



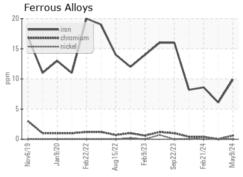


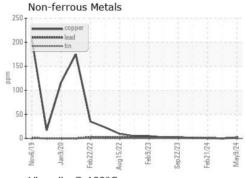


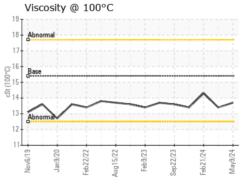
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

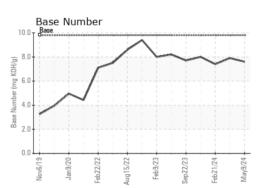
FLUID PROP	EKITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.4	14.3

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0117807 Lab Number : 06196117 Unique Number : 11058240

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** Diagnosed

: 31 May 2024 : 31 May 2024 - Wes Davis

GFL Environmental - 865 - East Mount Hauling

7213 East Mount Houston Road Houston, TX US 77050

Contact: Saul Castillo saul.castillo@gflenv.com

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)

Report Id: GFL865 [WUSCAR] 06196117 (Generated: 05/31/2024 16:48:29) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

T:

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