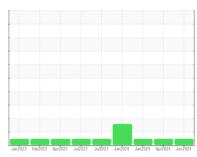


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
427192
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 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

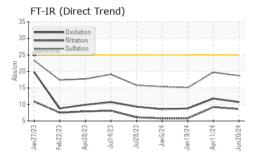
Fluid Condition

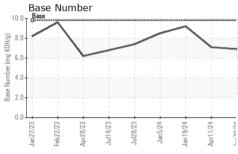
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

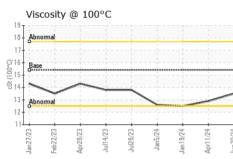
GAL)		Jan2023 Fel	bŽ023 AprŽ023 JulŽ023	Jul2023 Jan2024 Jan2024 Apr20	24 Jun2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123522	GFL0112040	GFL0105518
Sample Date		Client Info		20 Jun 2024	11 Apr 2024	19 Jan 2024
Machine Age	mls	Client Info		355324	348854	342301
Oil Age	mls	Client Info		355324	348854	342301
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	9	16	0
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	<1	1
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	0
Tin	ppm		>15	0	<1	0
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	1	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	49	55	50
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	10	8	9
Calcium	ppm	ASTM D5185m	1070	2476	2683	2388
Phosphorus	ppm	ASTM D5185m	1150	1054	1103	1025
Zinc	ppm	ASTM D5185m	1270	1271	1377	1196
Sulfur	ppm	ASTM D5185m	2060	3519	3815	2834
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11	14	10
Sodium	ppm	ASTM D5185m		3	3	0
Potassium	ppm	ASTM D5185m	>20	8	7	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.2	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.7	15.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.7	11.8	8.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	7.1	9.2



OIL ANALYSIS REPORT



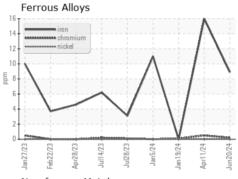


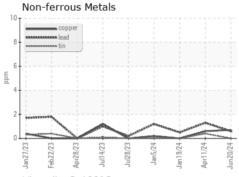


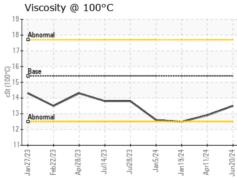
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

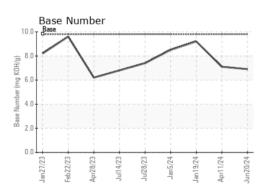
FLUID PROPI	ERIIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	12.9	12.5

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0123522 Lab Number : 06220660 Unique Number : 11098857 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024

Tested : 27 Jun 2024 Diagnosed

: 27 Jun 2024 - Angela Borella

GFL Environmental - 983 - Sugar Land Hauling 16011 West Belfort Street Sugar Land, TX

US 77498

Contact: TECHNICIAN ACCOUNT wcgfldemo@gmail.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: GFL983 [WUSCAR] 06220660 (Generated: 06/27/2024 13:04:35) Rev: 1

Submitted By: TECHNICIAN ACCOUNT

T:

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