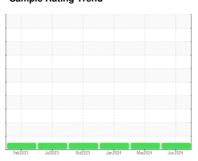


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
427159
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.

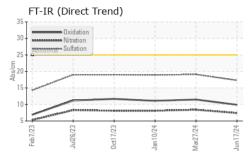
Fluid Condition

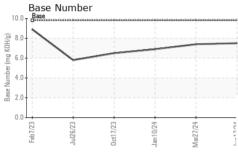
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

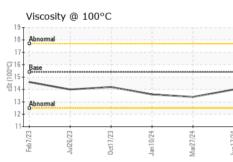
GAL)		Feb 2023	Jul2023 Oct2023	Jan 2024 Mar 2024	Jun2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123532	GFL0112095	GFL0105539
Sample Date		Client Info		17 Jun 2024	27 Mar 2024	10 Jan 2024
Machine Age	mls	Client Info		327652	317434	309279
Oil Age	mls	Client Info		327652	317434	309279
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	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 METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	6	12	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	<1
Lead	ppm	ASTM D5185m	>40	1	1	2
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm		>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	46	58	52
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	33	24	0
Calcium	ppm	ASTM D5185m	1070	2474	2759	2579
Phosphorus	ppm	ASTM D5185m	1150	1041	1084	1166
Zinc	ppm	ASTM D5185m	1270	1189	1370	1328
Sulfur	ppm	ASTM D5185m	2060	3004	3495	3240
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	7
Sodium	ppm	ASTM D5185m		2	2	3
Potassium	ppm	ASTM D5185m	>20	3	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.4	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3	19.1	18.9
FLUID DEGRA	NOITAD	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.9	11.5	11.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.5	7.4	6.9



OIL ANALYSIS REPORT





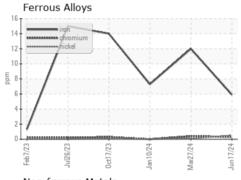


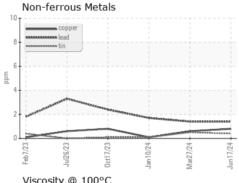
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

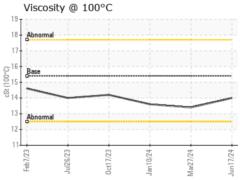
FLUID PROPE	RHES	method	ilmit/base		nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.4	13.6

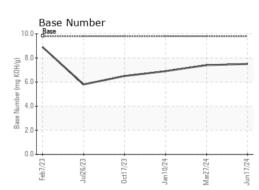
GRAPHS

FLUID DDODEDTIEG













Certificate 12367

Laboratory Sample No.

: GFL0123532 Lab Number : 06219291 Unique Number : 11097488

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Jun 2024 **Tested**

: 25 Jun 2024 Diagnosed : 26 Jun 2024 - Don Baldridge

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

US 77498

Contact: Adrian Martinez adrianmartinez@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: GFL983 [WUSCAR] 06219291 (Generated: 06/28/2024 00:45:35) Rev: 1

Test Package : FLEET

Submitted By: TECHNICIAN ACCOUNT

T:

F: