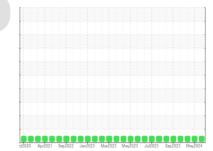


OIL ANALYSIS REPORT

Sample Rating Trend









(EFZ561)
817000
Component
Diesel Engine

PETRO CANADA DURON SHP 15W40 (32 QTS)

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

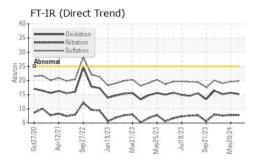
Fluid Condition

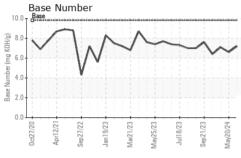
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

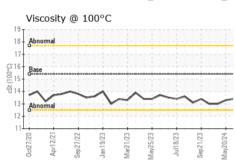
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0111455	GFL0111412	GFL0068816
Sample Date		Client Info		28 Jun 2024	20 May 2024	22 Mar 2024
Machine Age	hrs	Client Info		15971	15635	15360
Oil Age	hrs	Client Info		1025	689	414
Oil Changed	1115	Client Info		Changed	Not Changd	Not Changd
Sample Status		Ciletit IIIIO		NORMAL	NORMAL	NORMAL
·				NOTIMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	8	8	9
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	3
Lead	ppm	ASTM D5185m	>40	1	1	2
Copper	ppm	ASTM D5185m	>330	1	2	2
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	6	4	4
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	57	63	59
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	913	1007	903
Calcium	ppm	ASTM D5185m	1070	1033	1159	1060
Phosphorus	ppm	ASTM D5185m	1150	987	1031	1039
Zinc	ppm	ASTM D5185m	1270	1237	1327	1166
Sulfur	ppm	ASTM D5185m	2060	2614	3235	2813
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	5	9
Sodium	ppm	ASTM D5185m		3	3	<1
Potassium	ppm	ASTM D5185m	>20	2	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.8	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	19.6	19.0
FLUID DEGRA	NOITAG	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	15.7	15.2



OIL ANALYSIS REPORT



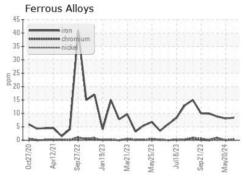




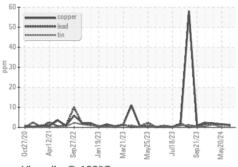
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	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

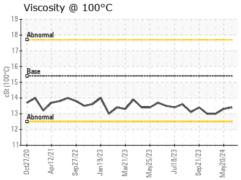
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.3	13.0	

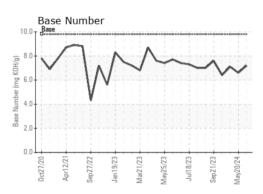
GRAPHS















Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0111455 Lab Number : 06227104 Unique Number : 11110597

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jul 2024

Tested : 05 Jul 2024 Diagnosed : 05 Jul 2024 - Wes Davis

155 Story Road Warner Robins, GA US 31093 Contact: JOSH MALONEY

GFL Environmental - 073 - Warner Robins - Transwaste

jmaloney@gflenv.com T:

* - 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)

F: