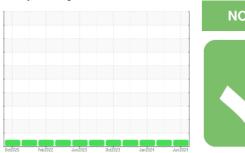


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **525014-7014**

Diesel Engine

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

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

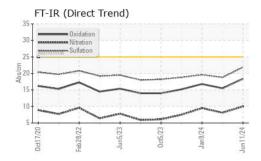
Fluid Condition

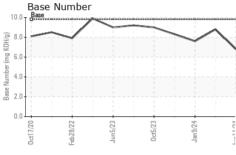
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

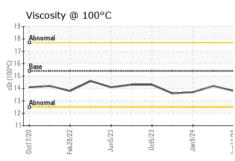
_TR)		Oct2020	Feb2022 Jun2023	Oct2023 Jan2024	Jun2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0091880	GFL0112777	GFL0045467
Sample Date		Client Info		11 Jun 2024	03 Apr 2024	09 Jan 2024
Machine Age	mls	Client Info		366550	366550	13890
Oil Age	mls	Client Info		326550	40000	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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	28	15	17
Chromium	ppm	ASTM D5185m	>4	2	2	<1
Nickel	ppm	ASTM D5185m	>2	<1	1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	12	12	9
Lead	ppm	ASTM D5185m	>45	<1	3	1
Copper	ppm	ASTM D5185m	>85	5	2	2
Tin	ppm	ASTM D5185m	>4	1	2	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	<1	1
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	63	60	57
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	986	1006	970
Calcium	ppm	ASTM D5185m	1070	1093	1145	1043
Phosphorus	ppm	ASTM D5185m	1150	1132	1041	983
Zinc	ppm	ASTM D5185m	1270	1286	1310	1324
Sulfur	ppm	ASTM D5185m	2060	2690	3581	2895
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	15	14	8
Sodium	ppm	ASTM D5185m	00	4	8	6
Potassium	ppm	ASTM D5185m		10	9	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.0	8.1	9.5
Sulfation	Abs/.1mm	*ASTM D7415		21.9	18.8	19.6
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.4	15.5	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	8.8	7.6



OIL ANALYSIS REPORT



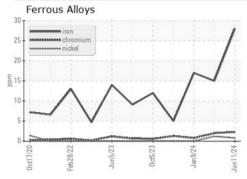


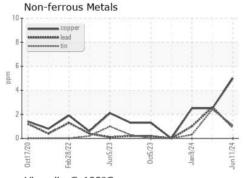


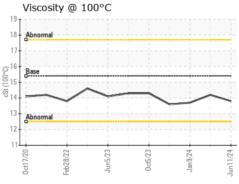
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

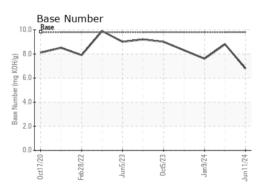
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.8	14.2	13.7

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0091880 Lab Number : 06212924 Unique Number : 11085788

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** Diagnosed

: 19 Jun 2024 : 19 Jun 2024 - Wes Davis

GFL Environmental - 654 - Richmond Hauling 11800 Lewis Road

Chester, VA US 23831

Contact: Jimmy Mayes jmayes@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)

T: F: