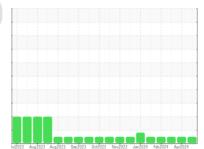


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
414059
Component
Diesel Engine
Fluid

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

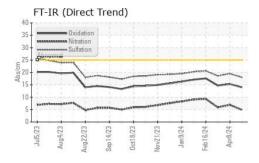
Fluid Condition

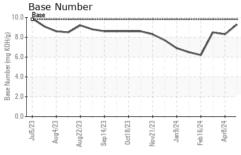
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

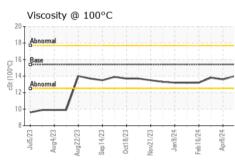
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number	/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Client Info		GFL0118639	GFL0110621	GFL0110551
Sample Date		Client Info		18 Apr 2024	08 Apr 2024	11 Mar 2024
	hrs	Client Info		1983	3123	1804
-	hrs	Client Info		600	600	200
Oil Changed	1110	Client Info		Changed	Changed	Not Changd
Sample Status		Ollone IIIIo		NORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	2	10	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	ppm	ASTM D5185m	>5	0	1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>20	1	2	2
	ppm	ASTM D5185m	>40	0	1	0
	ppm	ASTM D5185m	>330	13	58	48
	ppm	ASTM D5185m	>15	0	<1	<1
	ppm	ASTM D5185m		0	<1	0
	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	62	59
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1003	1113	976
Calcium	ppm	ASTM D5185m	1070	1062	1191	1063
Phosphorus	ppm	ASTM D5185m	1150	1066	1127	1053
Zinc	ppm	ASTM D5185m	1270	1268	1433	1212
Sulfur	ppm	ASTM D5185m	2060	3579	3744	3201
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	4
Sodium	ppm	ASTM D5185m		<1	3	2
Potassium	ppm	ASTM D5185m	>20	<1	5	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.1	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	4.9	6.9	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	19.5	18.6
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	15.3	14.7
	mg KOH/g	ASTM D2896	9.8	9.3	8.3	8.5



OIL ANALYSIS REPORT



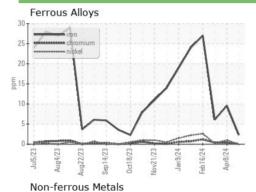


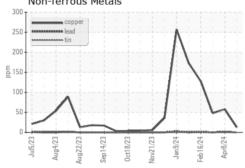


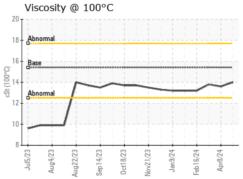
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

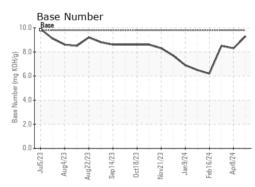
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.6	13.8	

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06158328 Unique Number : 10993751

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0118639

Received **Tested** Diagnosed

: 23 Apr 2024 : 24 Apr 2024

: 24 Apr 2024 - Wes Davis

GFL Environmental - 166 - Phenix City 18 Old Brickyard Rd Phenix City, AL US 36869

Contact: DEAN PEACE JR dean.peace@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: