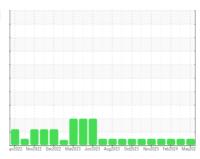


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **227070-16**

Diesel Engine

PETRO CANADA DURON SHP 15W40 (3 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

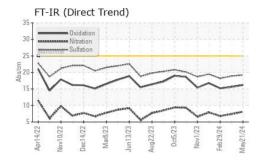
Fluid Condition

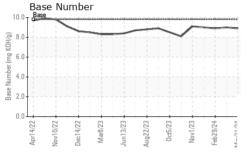
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

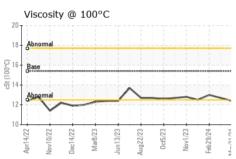
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118671	GFL0118712	GFL0110601
Sample Date		Client Info		21 May 2024	29 Apr 2024	29 Feb 2024
Machine Age	mls	Client Info		36013	359143	358419
Oil Age	mls	Client Info		600	150	10197
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	NC	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 METALS	<u> </u>	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	2	3	9
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>30	<1	0	2
Lead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm	ASTM D5185m	>150	0	0	<1
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	60	63	65
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	985	1054	1015
Calcium	ppm	ASTM D5185m	1070	1149	1208	1143
Phosphorus	ppm	ASTM D5185m	1150	1104	1151	1143
Zinc	ppm	ASTM D5185m	1270	1244	1388	1279
Sulfur	ppm	ASTM D5185m	2060	3601	3955	3516
CONTAMINANT	ſS	method	limit/base	current	history1	historv2
001117111111111111111111111111111111111				Current		,
	ppm		>20	1	2	6
Silicon			>20	34.73.11	2	6 <1
Silicon Sodium	ppm	ASTM D5185m	>20	1		
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m		1 2	0	<1
Silicon Sodium Potassium INFRA-RED	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>20	1 2 0	0	<1 2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>20 limit/base	1 2 0 current	0 0 history1	<1 2 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>20 limit/base >3	1 2 0 current	0 0 history1 0.1	<1 2 history2 0.1
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	1 2 0 current 0.1 8.1	0 0 history1 0.1 7.4	<1 2 history2 0.1 6.8
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAD	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m Method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	1 2 0 current 0.1 8.1 19.2	0 0 history1 0.1 7.4 18.9	<1 2 history2 0.1 6.8 18.2



OIL ANALYSIS REPORT



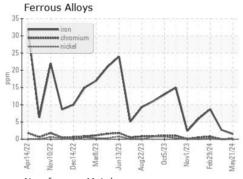


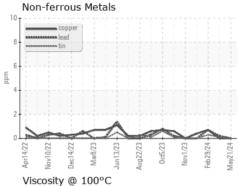


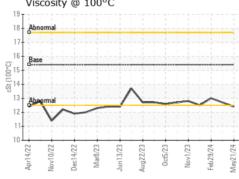
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

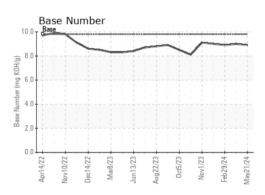
FLUID PROPE	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	12.7	13.0

GRAPHS













Certificate 12367

Laboratory Sample No. Lab Number : 06197290 Unique Number : 11059413

Test Package : FLEET

: GFL0118671

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

: 03 Jun 2024 : 03 Jun 2024 Diagnosed : 04 Jun 2024 - Sean Felton

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: