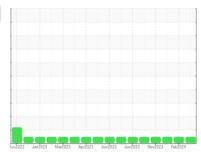


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
422043-25
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (12 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

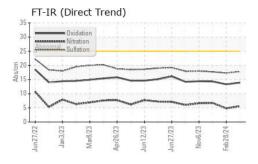
Fluid Condition

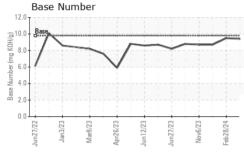
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

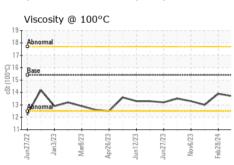
SAMPLE INFORM	MOLTAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0118699	GFL0110599	GFL0100187
Sample Date		Client Info		29 May 2024	28 Feb 2024	11 Dec 2023
Machine Age	hrs	Client Info		39690	22891	39690
Oil Age	hrs	Client Info		600	600	600
Oil Changed	1110	Client Info		Changed	Not Changd	Changed
Sample Status		Onorte milo		NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	4	4	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	9	7	1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	3	0
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	63	62	54
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	1002	971	905
Calcium	ppm	ASTM D5185m	1070	1133	1026	969
Phosphorus	ppm	ASTM D5185m	1150	1110	1082	1021
Zinc	ppm	ASTM D5185m	1270	1253	1258	1224
Sulfur	ppm	ASTM D5185m	2060	3359	3307	2488
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	4	4	4
Sodium	ppm	ASTM D5185m		2	3	<1
		AOTAL DELOE	. 20	_	4	
Potassium	ppm	ASTM D5185m	>20	1	1	0
Potassium INFRA-RED	ppm	method	limit/base	current	1 history1	0 history2
	ppm %					
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844	limit/base	current 0.2	history1	history2 0.1
INFRA-RED Soot % Nitration	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624	limit/base >4 >20	ourrent 0.2 5.6	history1 0.1 4.8	history2 0.1 6.7
INFRA-RED Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624 *ASTM D7415	limit/base	current 0.2 5.6 17.8	0.1 4.8 17.3	history2 0.1 6.7 17.7



OIL ANALYSIS REPORT



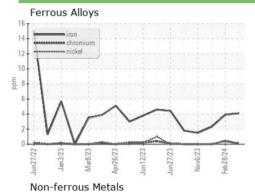


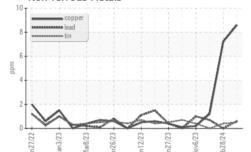


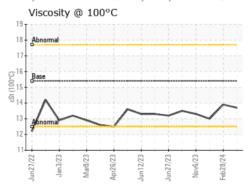
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

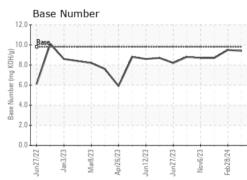
FLUID PROP	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.9	13.0

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0118699 Lab Number : 06196281 Unique Number : 11058404 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 31 May 2024

Tested : 03 Jun 2024 Diagnosed : 03 Jun 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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: