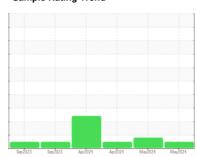


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
727178
Component
Diesel Engine

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

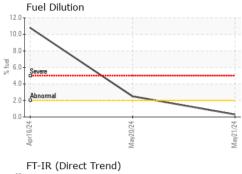
Fluid Condition

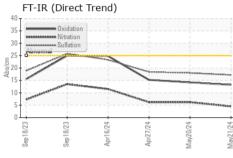
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

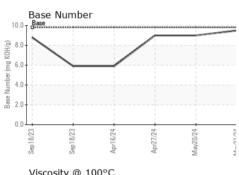
GAL)		Sep2023	Sep2023 Apr2024	Apr2024 May2024	May2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084829	GFL0084826	GFL0084806
Sample Date		Client Info		21 May 2024	20 May 2024	27 Apr 2024
Machine Age	hrs	Client Info		16390	16405	16315
Oil Age	hrs	Client Info		0	16282	16282
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>100	0	7	9
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	1	<1
Aluminum	ppm	ASTM D5185m	>20	1	3	3
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	0	2	1
Tin	ppm	ASTM D5185m	>15	<1	1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	0	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	59	57
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	946	955	930
Calcium	ppm	ASTM D5185m	1070	1003	1068	1040
Phosphorus	ppm	ASTM D5185m	1150	1049	1074	1066
Zinc	ppm	ASTM D5185m	1270	1237	1212	1197
Sulfur	ppm	ASTM D5185m	2060	3694	3593	3586
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	6	5
Sodium	ppm	ASTM D5185m		2	3	4
Potassium		ASTM D5185m	>20	•	A	4
	ppm		>20	2	4	+
Fuel	%	ASTM D3524	>2.0	0.3	⁴ △ 2.5	<1.0
Fuel INFRA-RED						
		ASTM D3524	>2.0	0.3	▲ 2.5	<1.0
INFRA-RED	%	ASTM D3524 method	>2.0 limit/base	0.3 current	▲ 2.5 history1	<1.0 history2
INFRA-RED Soot %	%	ASTM D3524 method *ASTM D7844	>2.0 limit/base >3	0.3 current 0.1	△ 2.5 history1 0.2	<1.0 history2 0.2
INFRA-RED Soot % Nitration	% % Abs/cm Abs/.1mm	ASTM D3524 method *ASTM D7844 *ASTM D7624	>2.0 limit/base >3 >20	0.3 current 0.1 4.5	2.5 history1 0.2 6.2	<1.0 history2 0.2 6.2
INFRA-RED Soot % Nitration Sulfation	% % Abs/cm Abs/.1mm	Method *ASTM D7844 *ASTM D7624 *ASTM D7415	>2.0 limit/base >3 >20 >30	0.3 current 0.1 4.5 17.2	2.5 history1 0.2 6.2 18.0	<1.0 history2 0.2 6.2 18.4
INFRA-RED Soot % Nitration Sulfation FLUID DEGRAI	% Abs/cm Abs/.1mm	ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>2.0 limit/base >3 >20 >30 limit/base	0.3	▲ 2.5 history1 0.2 6.2 18.0 history1	<1.0 history2 0.2 6.2 18.4 history2

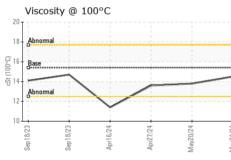


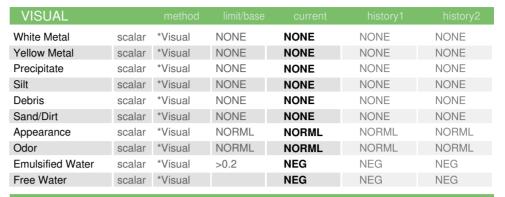
OIL ANALYSIS REPORT





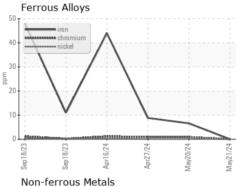


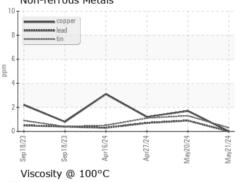


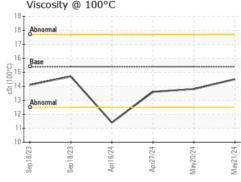


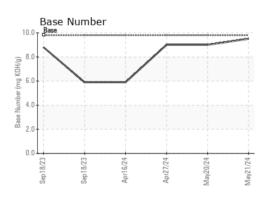
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.5	13.8	13.6

GRAPHS













Laboratory Sample No.

Lab Number : 06214409 Unique Number : 11087273

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0084829

Received : 19 Jun 2024 **Tested** Diagnosed

: 21 Jun 2024 : 21 Jun 2024 - Wes Davis

4808 cunningham Rd Urbana, IL US 61802 Contact: Kristine Tryon

Test Package : FLEET (Additional Tests: PercentFuel) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Ktryon@gflenv.com

GFL Environmental - 959A - Urbana HC

* - 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)

Report Id: GFL959A [WUSCAR] 06214409 (Generated: 06/21/2024 16:25:38) Rev: 1

Submitted By: Also GFL959E - Kristine Tryon

T:

F: