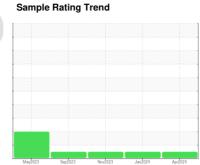


OIL ANALYSIS REPORT

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Machine Id
713014
Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Current hours are 2936. Unsure of how the previous oil sample was submitted with 2949.)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

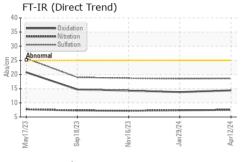
Fluid Condition

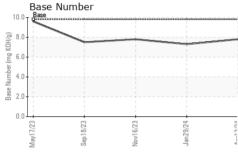
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

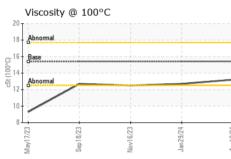
SAMPLE INFORM	AATION	method	limit/base	current	history1	history2
	VIATION		IIIIIIIIIIII	GFL0096975	GFL0096943	•
Sample Number Sample Date		Client Info		12 Apr 2024	29 Jan 2024	GFL0096982 16 Nov 2023
Machine Age	hrs	Client Info		2936	2949	1723
Oil Age	hrs	Client Info		2700	1226	1203
Oil Changed	1115	Client Info		Changed	Changed	Changed
Sample Status		Ciletit iiiio		NORMAL	NORMAL	NORMAL
CONTAMINATI	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	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	13	10	13
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	2	1	2
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	3	3	2
Lead	ppm	ASTM D5185m	>40	1	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	9
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	14	11	11
Barium	ppm	ASTM D5185m	0	<1	1	10
Molybdenum	ppm	ASTM D5185m	60	66	61	66
Manganese	ppm	ASTM D5185m	0	2	<1	<1
Magnesium	ppm	ASTM D5185m	1010	935	820	822
Calcium	ppm	ASTM D5185m	1070	1151	1029	1119
Phosphorus	ppm	ASTM D5185m	1150	1151	954	982
Zinc	ppm	ASTM D5185m	1270	1289	1128	1133
Sulfur	ppm	ASTM D5185m	2060	3632	2670	3169
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	4	6
Sodium	ppm	ASTM D5185m		2	<1	0
Potassium	ppm	ASTM D5185m	>20	5	5	9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.4	7.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	18.5	18.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	13.8	14.3
Oxidation						
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	7.3	7.8

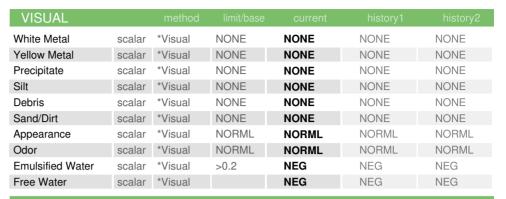


OIL ANALYSIS REPORT



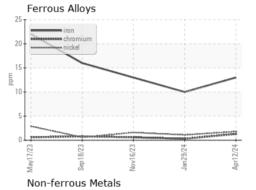


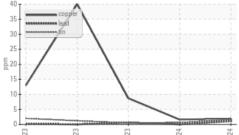


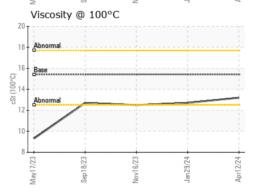


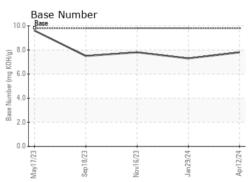
FLUID PROPE	ERITES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	12.7	12.5

GRAPHS













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06152580

Unique Number : 10982658 Test Package : FLEET

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

: GFL0096975

Received : 17 Apr 2024 **Tested** : 18 Apr 2024 Diagnosed

: 22 Apr 2024 - Don Baldridge

GFL Environmental - 031 - Greenville/Spartanburg 1635 Antioch Church Rd Piedmont, SC

US 29673

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com

* - 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)

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F: