

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 925019-9032

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.

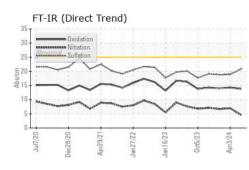
Fluid Condition

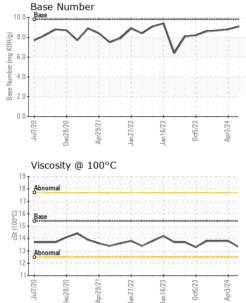
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0070939	GFL0070942	GFL0058053
Sample Date		Client Info		11 Jul 2024	03 Apr 2024	19 Mar 2024
Machine Age	hrs	Client Info		20138	19622	19521
Oil Age	hrs	Client Info		20	550	494
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	s	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	9	12	11
Chromium	ppm	ASTM D5185m	>4	3 <1	<1	<1
Nickel		ASTM D5185m	>2	0	0	0
Titanium	ppm ppm	ASTM D5185m	22	ں <1	<1	0
Silver		ASTM D5185m	>2	0	0	0
Aluminum	ppm ppm	ASTM D5185m	>25	6	2	2
Lead		ASTM D5185m	>45	0	<1	1
	ppm	ASTM D5185m	>85	۰ <1	<1	<1
Copper Tin	ppm	ASTM D5185m	>00	0	0	<1
Vanadium	ppm	ASTM D5185m	>4	v <1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	257	1	5
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	105	63	59
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	1010	620	1029	962
Calcium	ppm	ASTM D5185m	1070	1492	1131	1062
Phosphorus	ppm	ASTM D5185m	1150	746	1031	1064
Zinc	ppm	ASTM D5185m	1270	826	1321	1273
Sulfur	ppm	ASTM D5185m	2060	2493	3863	3636
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	23	4	4
Sodium	ppm	ASTM D5185m		3	2	2
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	4.6	7.0	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	18.9	18.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	14.3	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.1	8.8	8.7
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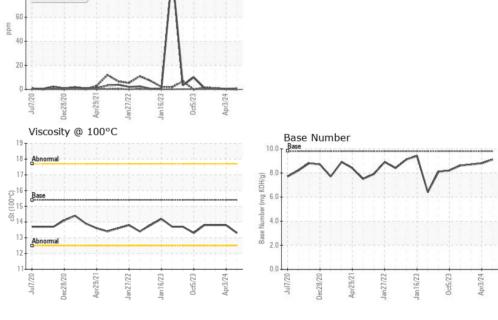


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.8	13.8
GRAPHS						



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Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 657 - Charlottesville Hauling Sample No. : GFL0070939 Received : 12 Jul 2024 5498 Richmond Road Lab Number : 06234671 Tested : 15 Jul 2024 Troy, VA US 22974 Unique Number : 11123505 Diagnosed : 15 Jul 2024 - Don Baldridge Test Package : FLEET Contact: Brian Ulickas Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bulickas@gflenv.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: TECHNICIAN ACCOUNT