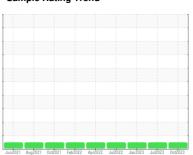


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **728033-361504**

Component

Diesel Engine

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

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

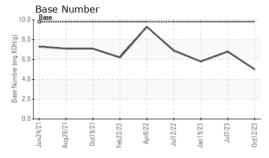
Fluid Condition

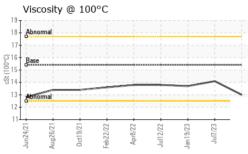
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

CAMPLE INCOM	MATION	Junzuzi Auj		Apr2022 Jul2022 Jan2023 Jul203		hi d
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0094255	GFL0085400	GFL0066754
Sample Date		Client Info		12 Oct 2023	07 Jul 2023	19 Jan 2023
Machine Age	hrs	Client Info		11500	6253	5512
Oil Age	hrs	Client Info		0	14418	0
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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	80	75	58
Chromium	ppm	ASTM D5185m	>5	2	5	4
Nickel	ppm	ASTM D5185m	>2	2	2	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>30	5	7	6
Lead	ppm	ASTM D5185m	>30	0	<1	<1
Copper	ppm	ASTM D5185m	>150	2	3	2
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	6	10
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	61	69	65
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	822	962	868
Calcium	ppm	ASTM D5185m	1070	1072	1439	1263
Phosphorus	ppm	ASTM D5185m	1150	962	1055	997
Zinc	ppm	ASTM D5185m	1270	1147	1393	1268
Sulfur	ppm	ASTM D5185m	2060	2483	3414	3021
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	11	11	8
Sodium	ppm	ASTM D5185m		0	2	3
Potassium	ppm	ASTM D5185m	>20	1	3	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.8	0.8
Nitration	Abs/cm	*ASTM D7624	>20	12.4	13.2	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	26.9	28.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.1	26.4	30.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	5.0	6.8	5.8



OIL ANALYSIS REPORT





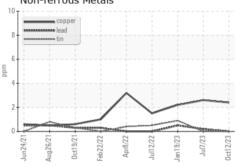
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

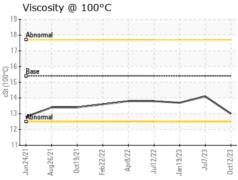
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.0	14.1	13.7

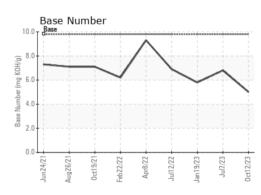
GRAPHS

Ferrous Alloys 50 20

10 Non-ferrous Metals











Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10698344

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0094255 : 05981049

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

Test Package : FLEET

Received : 17 Oct 2023 Diagnosed : 18 Oct 2023 Diagnostician : Don Baldridge GFL Environmental - 882 - Gainesville

5002 SW 41st Blvd Gainesville, FL US 32608

Contact: ROBERT CLARK

robert.clark@gflenv.com T:

* - 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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