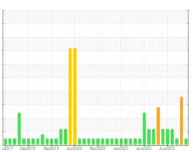


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 10794 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 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.

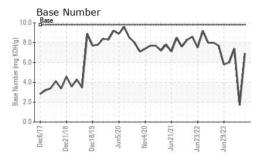
Fluid Condition

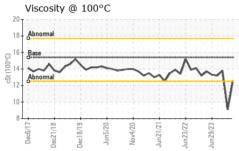
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)	-2017 Dec2018 Dec2019 Jun2020 New2020 Jun2021 Jun2022 Jun2022 Jun2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0074641	GFL0074622	GFL0092499	
Sample Date		Client Info		01 Feb 2024	22 Dec 2023	15 Aug 2023	
Machine Age	hrs	Client Info		82653	82379	15981	
Oil Age	hrs	Client Info		274	0	0	
Oil Changed		Client Info		Not Changd	Changed	Changed	
Sample Status				NORMAL	ABNORMAL	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	0.0	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>75	53	71	23	
Chromium	ppm	ASTM D5185m	>5	<1	1	1	
Nickel	ppm	ASTM D5185m	>4	0	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	<1	
Aluminum	ppm	ASTM D5185m	>15	4	3	3	
Lead	ppm	ASTM D5185m	>25	0	<1	<1	
Copper	ppm	ASTM D5185m	>100	4	<1	1	
Tin	ppm	ASTM D5185m	>4	<1	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	5	<1	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	60	26	64	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	847	▲ 350	990	
Calcium	ppm	ASTM D5185m	1070	1044	429	1101	
Phosphorus	ppm	ASTM D5185m	1150	965	496	1007	
Zinc	ppm	ASTM D5185m	1270	1125	▲ 620	1244	
Sulfur	ppm	ASTM D5185m	2060	2830	▲ 1296	3383	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	7	10	12	
Sodium	ppm	ASTM D5185m		63	99	37	
Potassium	ppm	ASTM D5185m	>20	3	6	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.8	0.7	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.5	10.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.4	21.2	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	15.8	17.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	▲ 1.7	7.4	



OIL ANALYSIS REPORT

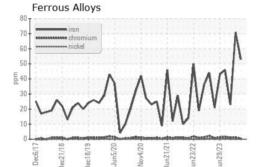


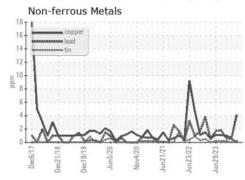


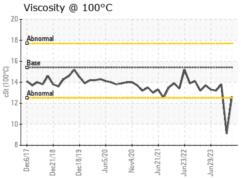
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

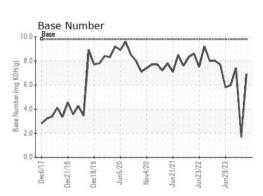
FLUID PROPI	EKIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	▲ 9.1	13.8

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number : 06079544 Unique Number : 10861635 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0074641 Received : 05 Feb 2024 **Tested** : 06 Feb 2024

Diagnosed : 06 Feb 2024 - Wes Davis

GFL Environmental - 095 - Atlanta West

2699 Cochran Industrial Blvd Douglasville, GA

US 30127-1332 Contact: Darrell Welch

darrell.welch@gflenv.com T: (800)207-6618

* - 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)