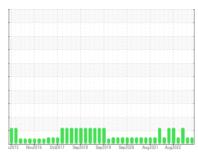


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 2469 Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (10 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.

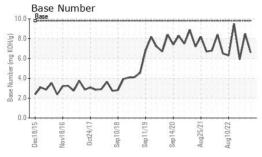
Fluid Condition

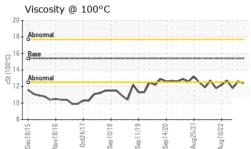
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AAL)		c2015 Nov20	16 Oct2017 Sep2018	Sep2019 Sep2020 Aug2021	Aug2022	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0079023	GFL0049467	GFL0049384
Sample Date		Client Info		24 Aug 2023	08 Mar 2023	01 Feb 2023
Machine Age	hrs	Client Info		22047	502842	498285
Oil Age	hrs	Client Info		502842	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<u>^</u> 2.2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	10	3	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	1	3
Lead	ppm	ASTM D5185m	>40	- <1	0	<1
Copper	ppm	ASTM D5185m	>330	4	1	6
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium		ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	5	0
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm	ASTM D5185m	60	67	51	50
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	984	793	766
Calcium	ppm	ASTM D5185m	1070	1248	995	1049
Phosphorus	ppm	ASTM D5185m	1150	1146	898	858
Zinc	ppm	ASTM D5185m	1270	1334	1094	1104
Sulfur	ppm	ASTM D5185m	2060	3553	3338	3185
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	4	9
Sodium	ppm	ASTM D5185m		2	0	2
Potassium	ppm	ASTM D5185m	>20	1	0	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.6	6.5	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	17.3	18.7
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	13.0	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	8.5	5.9



OIL ANALYSIS REPORT

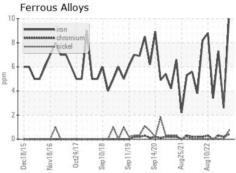


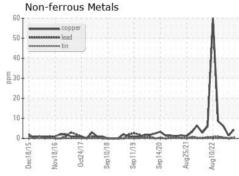


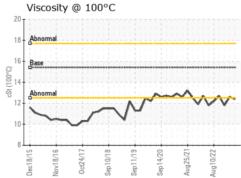
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

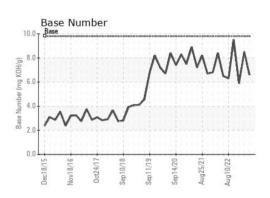
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	12.6	<u> </u>

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: GFL0079023 : 05936553 : 10621824

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

: 28 Aug 2023 : 29 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 029 - Wytheville

2390 North 4th Street Wytheville, VA US 24382

Contact: CHARLES CORVIN

charles.corvin@gflenv.com;canastasio@wearcheckusa.com T: (276)223-4476

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - 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) F: (276)223-1283