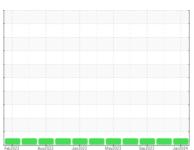


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
410019
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

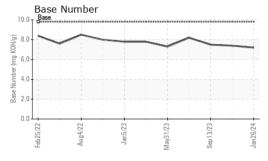
Fluid Condition

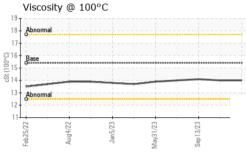
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

`	,	Feb2022	Aug2022 Jan2023	May2023 Sep2023	Jan 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0100397	GFL0077927	GFL0092514
Sample Date		Client Info		26 Jan 2024	14 Nov 2023	13 Sep 2023
Machine Age	hrs	Client Info		8522	7933	7324
Oil Age	hrs	Client Info		598	609	602
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	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	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	5	10	9
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	0
Lead	ppm	ASTM D5185m	>40	 <1	1	0
Copper	ppm	ASTM D5185m		1	1	0
Tin	ppm	ASTM D5185m	>15	- <1	<1	0
Vanadium	ppm	ASTM D5185m	710	0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES	PP	method	limit/base	current	history1	history2
Boron	ppm		0	0	0 9	2
Barium	ppm	ASTM D5185m		-		
Molybdenum	ppm	ASTM D5185m	60	66	63	62
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	991	946	1013
Calcium	ppm	ASTM D5185m	1070	1096	1079	1097
Phosphorus	ppm	ASTM D5185m	1150	1006	1055	1011
Zinc	ppm	ASTM D5185m	1270	1289	1238	1299
Sulfur	ppm	ASTM D5185m	2060	2938	3385	3534
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	2	4	3
Sodium	ppm	ASTM D5185m		<1	3	4
Potassium	ppm	ASTM D5185m	>20	2	3	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	9.3	9.6	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	21.5	20.2
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	19.0	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	7.4	7.5



OIL ANALYSIS REPORT

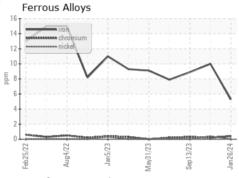


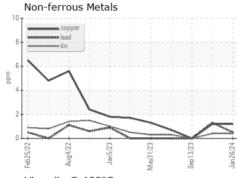


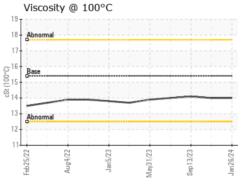
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

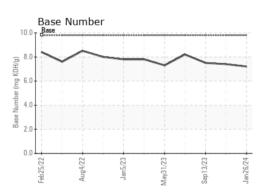
FLUID PROP	EHIIES	method			riistory i	HIStoryZ
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	14.0	14.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10859686

: GFL0100397 : 06077595

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 01 Feb 2024 Diagnosed : 02 Feb 2024

Diagnostician : Wes Davis

GFL Environmental - 935 - Omro HC 250 Alder Avenue Omro, WI US 54963 Contact: Tim Kieffer tim.kieffer@gflenv.com

T: (608)219-0288

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)