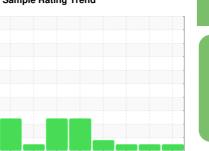


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
4524M
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

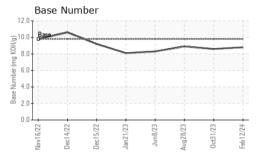
Fluid Condition

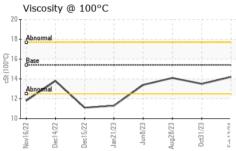
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

0.4.4.54.5		11092022	Dec2022 Dec2022 Jan20			
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0101067	GFL0092789	GFL0080814
Sample Date		Client Info		12 Feb 2024	31 Oct 2023	28 Aug 2023
Machine Age	hrs	Client Info		19975	19975	19975
Oil Age	hrs	Client Info		19975	19975	19975
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	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	>90	22	12	55
Chromium	ppm	ASTM D5185m	>20	<1	<1	3
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	5	13
Lead	ppm	ASTM D5185m	>40	<1	<1	4
Copper	ppm	ASTM D5185m	>330	<1	1	2
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	<1	2
Barium	ppm	ASTM D5185m	0	0	4	0
Molybdenum	ppm	ASTM D5185m	60	59	47	63
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	1012	711	1062
Calcium	ppm	ASTM D5185m	1070	1011	886	1174
Phosphorus	ppm	ASTM D5185m	1150	1051	506	1092
Zinc	ppm	ASTM D5185m	1270	1290	992	1381
Sulfur	ppm	ASTM D5185m	2060	3253	2195	3758
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	4	14
Sodium	ppm	ASTM D5185m		3	6	14
Potassium	ppm	ASTM D5185m	>20	1	4	5
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.8	7.0	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.8	20.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.9	18.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.6	8.9
(,	0 - 3					



OIL ANALYSIS REPORT

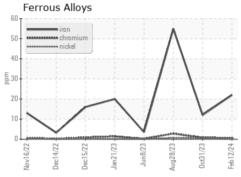


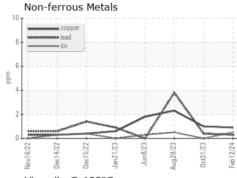


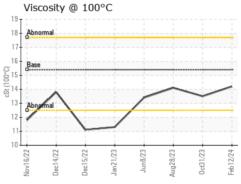
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

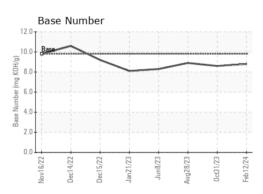
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.5	14.1

GRAPHS













Laboratory Sample No.

Lab Number : 06089807 Unique Number : 10882660

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0101067

Test Package : FLEET

Received : 15 Feb 2024 **Tested** : 16 Feb 2024

Diagnosed

: 16 Feb 2024 - Wes Davis

US 48507 Contact: MARK WOMBLE

GFL Environmental - 455 - Flint

mwomble@gflenv.com

T: (586)825-9514

2051 W. Bristol Rd

Flint Township, MI

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)