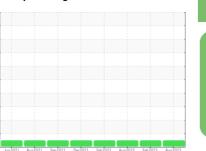


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
382M
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

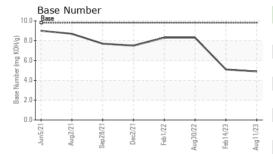
Fluid Condition

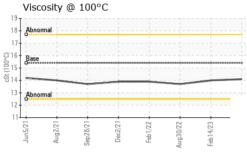
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

ON SHP 15W40 (GAL) Junitiz 1 Aug/2021 Sup/2021 Duc/2021 Feb/2022 Aug/2022 Feb/2023 Aug/2023 Feb/2023 Aug/2023						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086650	GFL0068631	GFL0057292
Sample Date		Client Info		11 Aug 2023	14 Feb 2023	30 Aug 2022
Machine Age	hrs	Client Info		11116	11918	6504
Oil Age	hrs	Client Info		11918	7319	7100
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	30	20	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	<1
_ead	ppm	ASTM D5185m	>40	4	2	1
Copper	ppm	ASTM D5185m	>330	2	1	<1
Γin	ppm	ASTM D5185m	>15	1	<1	<1
Antimony	ppm	ASTM D5185m				
√anadium	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	0	0	3
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	64	58	56
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1033	844	884
Calcium	ppm	ASTM D5185m	1070	1193	1010	1019
Phosphorus	ppm	ASTM D5185m	1150	1016	899	862
Zinc	ppm	ASTM D5185m	1270	1374	1121	1174
Sulfur	ppm	ASTM D5185m	2060	2924	2086	2352
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	3
Sodium	ppm	ASTM D5185m		20	3	4
Potassium	ppm	ASTM D5185m	>20	4	4	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	1.4	0.7	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.8	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	21.6	21.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2	17.4	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	4.9	5.1	8.3



OIL ANALYSIS REPORT

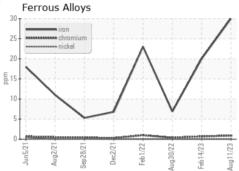


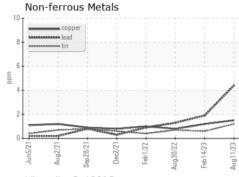


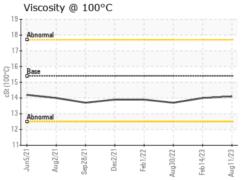
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

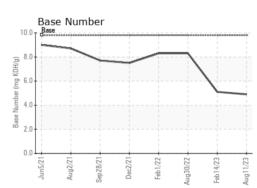
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.0	13.7

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086650 : 05924016 : 10603963

Received Diagnosed Diagnostician : Wes Davis

: 14 Aug 2023 : 15 Aug 2023 GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com

T: (586)825-9514

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)