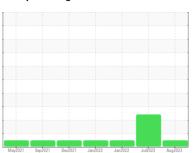


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
779M
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

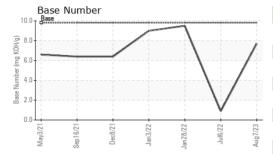
Fluid Condition

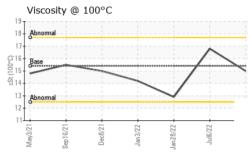
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

// SIII 15W+0 (- GAL)	May2021	Sep2021 Dec2021	Jan 2022 Jan 2022 Jul 2022	Aug2023	
SAMPLE INFORT	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0086664	GFL0055157	GFL0042314
Sample Date		Client Info		07 Aug 2023	06 Jul 2022	28 Jan 2022
Machine Age	hrs	Client Info		14878	18000	12934
Oil Age	hrs	Client Info		18000	13586	11685
Oil Changed		Client Info		Changed	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
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	48	44	12
Chromium	ppm	ASTM D5185m	>20	2	1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	19	6	1
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	1	1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	6	4
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	60	57	60	60
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	937	930	926
Calcium	ppm	ASTM D5185m	1070	1044	1090	1065
Phosphorus	ppm	ASTM D5185m	1150	1036	1009	1013
Zinc	ppm	ASTM D5185m	1270	1271	1309	1233
Sulfur	ppm	ASTM D5185m	2060	3427	3623	2957
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	8	4
Sodium	ppm	ASTM D5185m		3	5	5
Potassium	ppm	ASTM D5185m	>20	32	6	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	2.1	<u> 5</u>	0.5
Nitration	Abs/cm	*ASTM D7624	>20	12.3	15.4	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3	31.0	21.1
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.6	19.8	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	▲ 0.9	9.5



OIL ANALYSIS REPORT

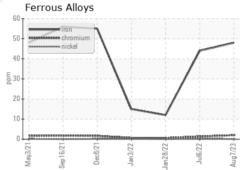


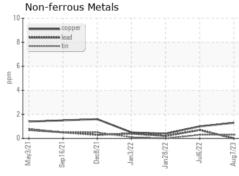


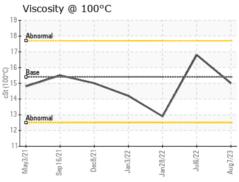
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

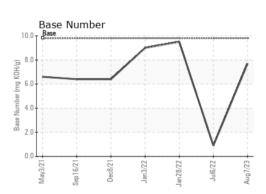
FLUID PROPE	EKITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	15.0	△ 16.8	12.9

GRAPHS













Certificate L2367

Laboratory Sample No. Test Package : FLEET

Lab Number Unique Number : 10591549

: GFL0086664 : 05919635

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

: 09 Aug 2023 : 10 Aug 2023 Diagnostician : Don Baldridge 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)