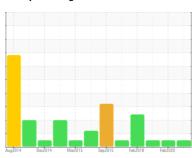


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
2571
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (40 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

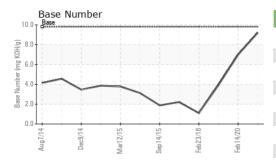
Fluid Condition

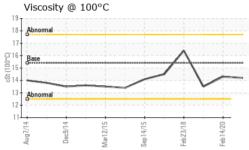
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Aug2014	Dec2014 Mar2015	Sep2015 Feb2018 Fi	352020	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0083040	GFL0003947	GFLI-476162
Sample Date		Client Info		08 Aug 2023	14 Feb 2020	11 Apr 2019
Machine Age	hrs	Client Info		0	12849	11093
Oil Age	hrs	Client Info		0	595	459
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	0.5
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	3	18	14
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	6	3
Lead	ppm	ASTM D5185m	>150	0	16	2
Copper	ppm	ASTM D5185m	>90	<1	2	1
Tin	ppm	ASTM D5185m	>5	0	0	0
Antimony	ppm	ASTM D5185m			3	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	6	97	244
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	59	119	125
Manganese	ppm	ASTM D5185m	0	0	<1	0
Magnesium	ppm	ASTM D5185m	1010	707	707	748
Calcium	ppm	ASTM D5185m	1070	1178	1626	1749
Phosphorus	ppm	ASTM D5185m	1150	961	612	806
Zinc	ppm	ASTM D5185m	1270	1124	837	928
Sulfur	ppm	ASTM D5185m	2060	3051	1953	
Lithium	ppm	ASTM D5185m				0
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	12	8	7
Sodium	ppm	ASTM D5185m		<1	5	3
Potassium	ppm	ASTM D5185m	>20	<1	0	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.1	0.5	0.1
Nitration	Abs/cm	*ASTM D7624	>20	4.0	13.1	9
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.5	28.1	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.2	25.5	16
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.2	7	3.93
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OIL ANALYSIS REPORT

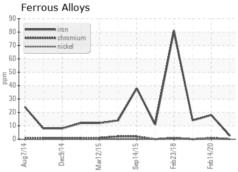


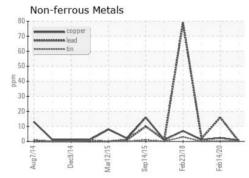


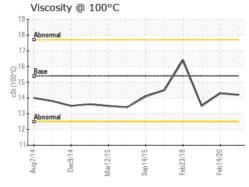
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	LIGHT	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	

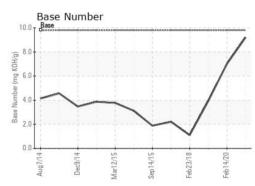
FLUID PROP	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.3	13.5

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: GFL0083040 : 05924640 : 10604587 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Aug 2023 Diagnosed : 15 Aug 2023 Diagnostician : Wes Davis

GFL Environmental - 074 - Douglas - Transwaste

1219 Landfill Road Douglas, GA US 31533

Contact: CURTIS JACOBS

CURTIS.JACOBS@GFLENV.COM

T: (912)384-6001

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)