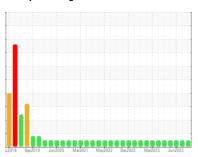


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **2718** Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

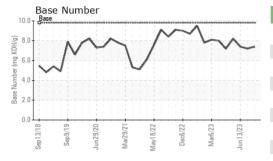
Fluid Condition

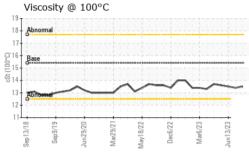
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

p2018 Sep2019 Jun2020 Mar2021 Mar2022 Des2022 Mar2023 Jun2023							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0088418	GFL0088413	GFL0058540	
Sample Date		Client Info		14 Sep 2023	29 Aug 2023	13 Jun 2023	
Machine Age	hrs	Client Info		13453	13332	12849	
Oil Age	hrs	Client Info		12849	12849	11959	
Oil Changed		Client Info		Changed	N/A	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	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>165	17	15	20	
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	<1	<1	
Lead	ppm	ASTM D5185m	>150	<1	0	0	
Copper	ppm	ASTM D5185m	>90	<1	3	2	
Tin	ppm	ASTM D5185m	>5	<1	0	0	
Vanadium	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	<1	0	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	58	62	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	993	924	1030	
Calcium	ppm	ASTM D5185m	1070	1167	1077	1141	
Phosphorus	ppm	ASTM D5185m	1150	1078	1001	1056	
Zinc	ppm	ASTM D5185m	1270	1328	1244	1319	
Sulfur	ppm	ASTM D5185m	2060	3583	3424	3614	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	5	4	4	
Sodium	ppm	ASTM D5185m		5	5	5	
Potassium	ppm	ASTM D5185m	>20	2	<1	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.2	9.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	21.4	21.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.2	17.4	18.8	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.4	7.2	7.4	
Dado Harribor (Dit)							



OIL ANALYSIS REPORT

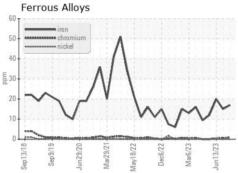


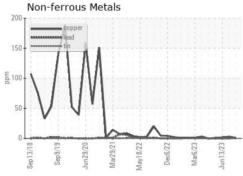


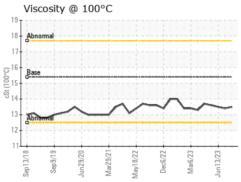
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

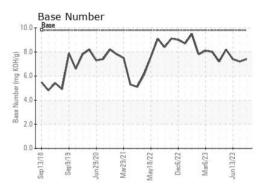
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	13.4	13.5

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0088418 : 05958091 : 10659304

Received Diagnosed

: 21 Sep 2023 : 22 Sep 2023 Diagnostician : Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN US 37042

Contact: ROBERT THIBAULT robert.thibault@gflenv.com

T: (931)552-7276 F: (931)572-9674

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)

Report Id: GFL084 [WUSCAR] 05958091 (Generated: 09/30/2023 19:50:43) Rev: 1