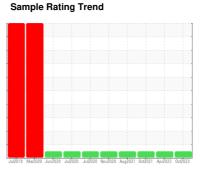


OIL ANALYSIS REPORT



NORMAL



Machine Id 11350 Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- 0

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

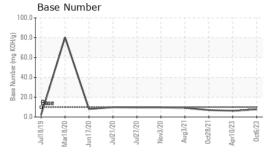
Fluid Condition

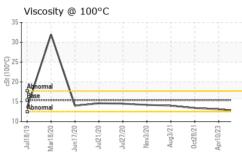
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Jul2019 Mar2	020 Jun2020 Jul2020 Jul2	020 Nov2020 Aug2021 Oct2021 Apr2	023 Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0098481	GFL0078263	GFL0028863	
Sample Date		Client Info		06 Oct 2023	10 Apr 2023	28 Oct 2021	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	600	0	
Oil Changed		Client Info		N/A	Changed	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS	6	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	16	30	26	
Chromium	ppm	ASTM D5185m	>20	<1	<1	1	
Nickel	ppm	ASTM D5185m	>4	<1	0	1	
Titanium	ppm	ASTM D5185m		0	0	<1	
Silver	ppm	ASTM D5185m	>3	<1	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	8	8	
Lead	ppm	ASTM D5185m	>40	0	0	1	
Copper	ppm	ASTM D5185m	>330	1	<1	6	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Antimony	ppm	ASTM D5185m				<1	
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	4	0	3	
Barium	ppm	ASTM D5185m	0	0	1	<1	
Molybdenum	ppm	ASTM D5185m	60	53	54	57	
Manganese	ppm	ASTM D5185m	0	<1	1	<1	
Magnesium	ppm	ASTM D5185m	1010	840	843	858	
Calcium	ppm	ASTM D5185m	1070	1162	1132	944	
Phosphorus	ppm	ASTM D5185m	1150	983	920	877	
Zinc	ppm	ASTM D5185m	1270	1209	1166	1214	
Sulfur	ppm	ASTM D5185m	2060	2834	2950	2177	
CONTAMINAN	ΓS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	6	7	9	
Sodium	ppm	ASTM D5185m		3	2	3	
Potassium	ppm	ASTM D5185m	>20	8	10	18	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.5	0.6	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.8	9.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	18.7	19.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.3	16.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	6.2	7	



OIL ANALYSIS REPORT

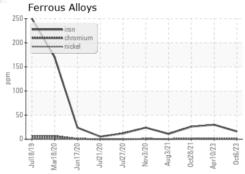


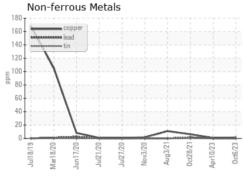


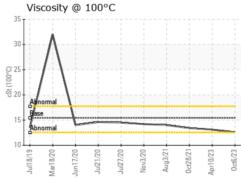
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

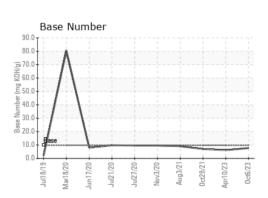
FLUID PROPE	RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	13.1	13.4

GRAPHS













Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10696126 Test Package : FLEET

: GFL0098481 : 05978831

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Oct 2023 Diagnosed : 16 Oct 2023

Diagnostician : Wes Davis

GFL Environmental - 846 - Mayfield Hauling

3426 State Route 45 Mayfield, KY US 42066 Contact: Jack Lindsey

jack.lindsey@gflenv.com T: (270)970-3690

* - 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: GFL846 [WUSCAR] 05978831 (Generated: 10/28/2023 17:55:00) Rev: 1