

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id
913146
Component
Diesel Engine
Fluid

PETRO CANADA DURON UHP 5W30 (--- 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

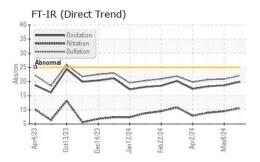
Fluid Condition

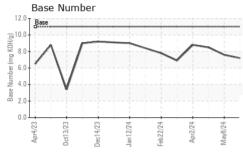
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

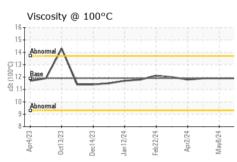
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0122931	GFL0118803	GFL0118810	
Sample Date		Client Info		30 May 2024	08 May 2024	19 Apr 2024	
Machine Age	hrs	Client Info		4137	3989	3826	
Oil Age	hrs	Client Info		3704	3719	0	
Oil Changed		Client Info		Changed	Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	15	12	9	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	<1	2	
Titanium	ppm	ASTM D5185m	>2	0	0	<1	
Silver	ppm	ASTM D5185m	>2	<1	<1	1	
Aluminum	ppm	ASTM D5185m	>20	<1	2	3	
Lead	ppm	ASTM D5185m	>40	0	0	<1	
Copper	ppm	ASTM D5185m	>330	2	5	3	
Tin	ppm	ASTM D5185m	>15	<1	1	1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	<1	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	17	31	32	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	64	58	57	58	
Manganese	ppm	ASTM D5185m	0	<1	2	<1	
Magnesium	ppm	ASTM D5185m	1160	1122	1120	1054	
Calcium	ppm	ASTM D5185m	820	875	855	840	
Phosphorus	ppm	ASTM D5185m	1160	1043	1055	1067	
Zinc	ppm	ASTM D5185m	1260	1248	1259	1206	
Sulfur	ppm	ASTM D5185m	3000	3586	3613	3427	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	0	5	5	
Sodium	ppm	ASTM D5185m		6	6	3	
Potassium	ppm	ASTM D5185m	>20	<1	<1	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.7	0.6	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	10.6	9.5	9.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	20.8	20.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	18.6	18.3	
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	7.2	7.6	8.5	
Dasc Number (DIN)	my Norry	NOTIVI DE030	11.0	1.2	7.0	0.0	



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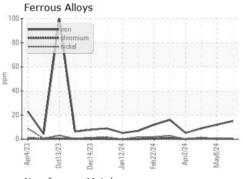


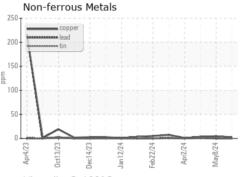


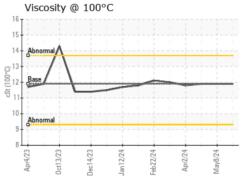
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

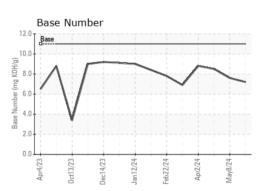
FLUID PROPI	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	11.9	11.9	11.9	11.9

GRAPHS













Certificate 12367

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0122931 Lab Number : 06198838 Unique Number : 11060961

Test Package : FLEET

Received : 04 Jun 2024 **Tested** : 05 Jun 2024 Diagnosed

: 05 Jun 2024 - Wes Davis

GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Loyce Stewart loyce.stewart@gflenv.com

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)

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Submitted By: JEREMY BROWN

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