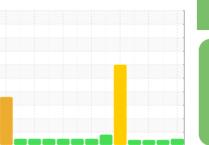


OIL ANALYSIS REPORT

Sample Rating Trend









(83J 44U)
913147
Component
Diesel Engine

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

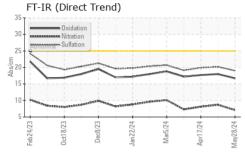
Fluid Condition

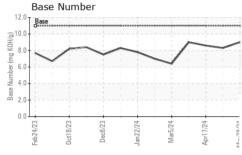
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

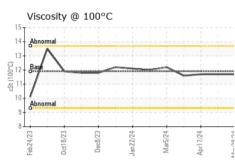
N UHP 5W30 (- GAL)	Feb2023	Oct2023 Dec2023		May2024			
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0122922	GFL0118779	GFL0118804		
Sample Date		Client Info		28 May 2024	08 May 2024	17 Apr 2024		
Machine Age	hrs	Client Info		3456	3359	3243		
Oil Age	hrs	Client Info		97	3086	2970		
Oil Changed		Client Info		Not Changd	Changed	Not Changd		
Sample Status				NORMAL	ATTENTION	ATTENTION		
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	0	6	6		
Chromium	ppm	ASTM D5185m	>20	0	0	<1		
Nickel	ppm	ASTM D5185m	>5	0	2	3		
Titanium	ppm	ASTM D5185m	>2	0	0	<1		
Silver	ppm	ASTM D5185m	>2	0	<1	<1		
Aluminum	ppm	ASTM D5185m	>20	<1	1	3		
Lead	ppm	ASTM D5185m	>40	0	<1	<1		
Copper	ppm	ASTM D5185m	>330	0	0	2		
Tin	ppm	ASTM D5185m	>15	0	<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	37	35	40		
Barium	ppm	ASTM D5185m	0	0	0	0		
Molybdenum	ppm	ASTM D5185m	64	55	56	58		
Manganese	ppm	ASTM D5185m		0	<1	<1		
Magnesium	ppm	ASTM D5185m	1160	1076	1063	1038		
Calcium	ppm	ASTM D5185m		872	801	813		
Phosphorus	ppm	ASTM D5185m	1160	1046	1050	1058		
Zinc	ppm	ASTM D5185m	1260	1211	1227	1199		
Sulfur	ppm	ASTM D5185m	3000	3809	3698	3392		
CONTAMINAN	TS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	<1	4	5		
Sodium	ppm	ASTM D5185m		5	5	3		
Potassium	ppm	ASTM D5185m	>20	0	1	2		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>4	0.2	0.3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.7	8.1		
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	20.2	19.9		
	FLUID DEGRADATION method limit/base current history1 history2							
FLUID DEGRA	NOITAC	method	limit/base	current	history1	history2		
FLUID DEGRAD	OATION Abs/.1mm	method *ASTM D7414	limit/base >25	current 16.7	history1 18.0	history2 17.7		



OIL ANALYSIS REPORT



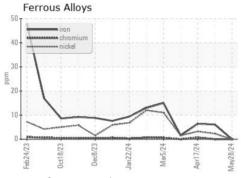


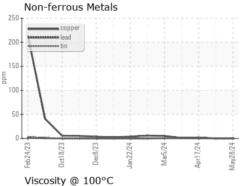


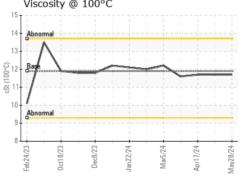
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

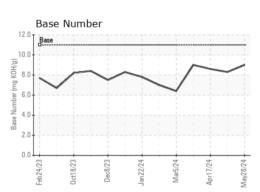
FLUID PROPI	ERHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	11.9	11.7	11.7	11.7

GRAPHS













Certificate 12367

Sample No.

Test Package : FLEET

: GFL0122922 Lab Number : 06197288 Unique Number : 11059411

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 03 Jun 2024 **Tested**

: 03 Jun 2024 Diagnosed : 03 Jun 2024 - Wes Davis

7801 East Truman Road Kansas City, MO

GFL Environmental - 836 - Kansas City Hauling

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)

T:

F: