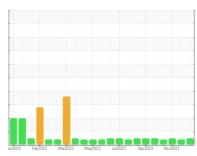


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **413108**

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

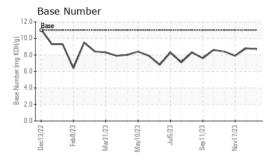
Fluid Condition

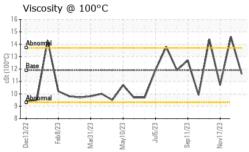
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0103339	GFL0099977	GFL0099935
Sample Date		Client Info		05 Jan 2024	07 Dec 2023	17 Nov 2023
Machine Age	hrs	Client Info		3371	3197	3029
Oil Age	hrs	Client Info		0	0	600
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				NORMAL	ATTENTION	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>80	5	46	9
Chromium	ppm	ASTM D5185m	>5	<1	2	<1
Nickel	ppm	ASTM D5185m	>2	2	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m		5	2	7
Lead	ppm	ASTM D5185m	>30	0	4	0
Copper	ppm	ASTM D5185m		3	2	6
Tin	ppm	ASTM D5185m	>5	<1	0	<1
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	53	3	145
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	64	14	59	104
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	1160	838	927	806
Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	820 1160	1213 778	1079 945	1334 796
Zinc	ppm	ASTM D5185m	1260	893	1211	954
Sulfur	ppm	ASTM D5185m	3000	2352	2986	2526
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	3	5	6
Sodium	ppm	ASTM D5185m		<1	10	1
Potassium	ppm	ASTM D5185m	>20	5	0	7
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	2.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.0	10.6	8.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	23.5	23.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.6	18.8	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	8.7	8.8	7.9



OIL ANALYSIS REPORT

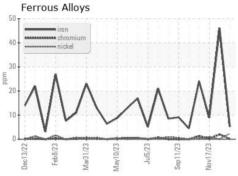


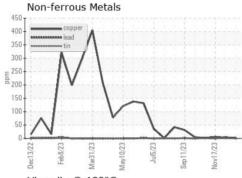


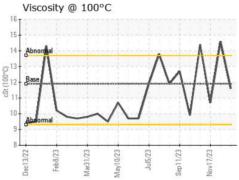
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

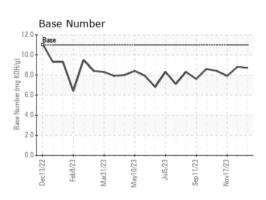
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	11.9	11.6	1 4.6	10.7

GRAPHS













Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0103339 : 06056356 : 10822305

Recieved : 10 Jan 2024 Diagnosed

: 11 Jan 2024 Diagnostician : Jonathan Hester GFL Environmental - 836 - Kansas City Hauling

7801 East Truman Road Kansas City, MO US 64126

Contact: Robert Hart rhart@gflenv.com T: (580)461-1509

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: GFL836 [WUSCAR] 06056356 (Generated: 01/11/2024 11:09:59) Rev: 1

Contact/Location: See also GFL823, 834, 837, 840 - Robert Hart - GFL836