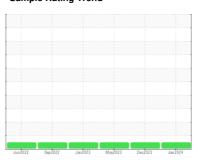


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id **352035**

Component

Gasoline 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

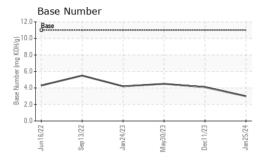
Fluid Condition

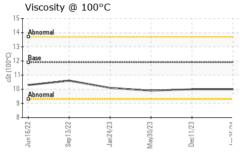
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AL)		Jun2022	Sep2022 Jan2023	3 May2023 Dec2023	Jan2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0092885	GFL0097479	GFL0067576	
Sample Date		Client Info		25 Jan 2024	11 Dec 2023	30 May 2023	
Machine Age	mls	Client Info		197637	195330	186430	
Oil Age	mls	Client Info		186430	0	5000	
Oil Changed		Client Info		N/A	N/A	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>4.0	<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	>150	14	7	21	
Chromium	ppm	ASTM D5185m	>20	1	<1	1	
Nickel	ppm	ASTM D5185m	>5	<1	0	1	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	<1	
Aluminum	ppm	ASTM D5185m		3	1	3	
Lead	ppm	ASTM D5185m	>50	0	0	1	
Copper	ppm	ASTM D5185m		<1	<1	0	
Tin	ppm	ASTM D5185m	>10	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	<1	
Cadmium	ppm	ASTM D5185m	11 11 11	<1	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	15	17	30	
Barium	ppm	ASTM D5185m		0	0	0	
Monganasa	ppm	ASTM D5185m	64	69	62 0	141	
Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m	1160	<1 435	379	574	
Calcium	ppm ppm	ASTM D5185m		979	966	1099	
Phosphorus	ppm	ASTM D5185m	1160	662	582	751	
Zinc	ppm	ASTM D5185m	1260	731	694	951	
Sulfur	ppm	ASTM D5185m	3000	2168	1507	2382	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	10	8	11	
Sodium	ppm	ASTM D5185m	>400	2	0	2	
Potassium	ppm	ASTM D5185m	>20	1	<1	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	11.2	9.5	10.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	18.7	23.3	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	12.1	16.7	
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	3.0	4.1	4.5	



OIL ANALYSIS REPORT

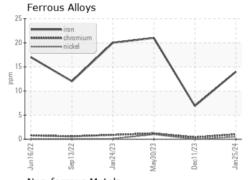


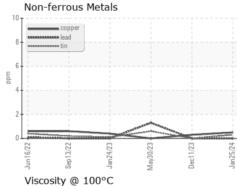


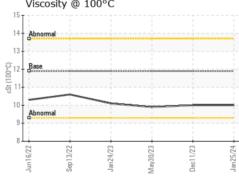
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

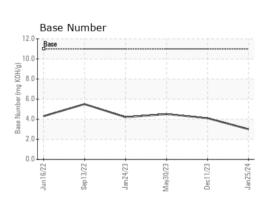
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	11.9	10.0	10.0	9.9

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0092885 Lab Number : 06105740 Unique Number : 10903970 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested** : 02 Mar 2024

Diagnosed : 04 Mar 2024 - Sean Felton GFL Environmental - 641 - Alpena 1241 KING SETTLEMENT RD

ALPENA, MI US 49707

Contact: DYLAN TOLAN dylan.tolan@gflenv.com T: (989)854-7203

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)