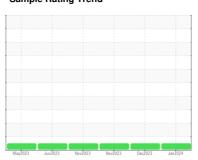


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL





Machine Id
4579M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (--- 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

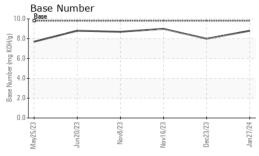
Fluid Condition

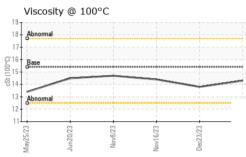
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

`	•	May2023	Junzuza Novzuza	Nov2023 Dec2023	Jan2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0108699	GFL0105808	GFL0101575	
Sample Date		Client Info		27 Jan 2024	23 Dec 2023	16 Nov 2023	
Machine Age	hrs	Client Info		7684	7382	7087	
Oil Age	hrs	Client Info		7382	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINA	TION	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 META	LS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>90	8	28	6	
Chromium	ppm	ASTM D5185m	>20	<1	1	0	
Nickel	ppm	ASTM D5185m	>2	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	<1	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	8	1	
Lead	ppm	ASTM D5185m	>40	0	2	0	
Copper	ppm	ASTM D5185m	>330	<1	1	<1	
Tin	ppm	ASTM D5185m	>15	<1	0	0	
Vanadium		ASTM D5185m	>10	<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
	ppm						
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	4	<1	0	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	54	61	59	
Manganese	ppm	ASTM D5185m	0	<1	0	0	
Magnesium	ppm	ASTM D5185m	1010	968	914	912	
Calcium	ppm	ASTM D5185m	1070	1071	1061	1062	
Phosphorus	ppm	ASTM D5185m	1150	1033	972	1014	
Zinc	ppm	ASTM D5185m	1270	1209	1209	1181	
Sulfur	ppm	ASTM D5185m	2060	3073	3087	3057	
CONTAMINA	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	4	4	
Sodium	ppm	ASTM D5185m		6	59	<1	
Potassium	ppm	ASTM D5185m	>20	3	18	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.1	1.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.4	12.2	5.5	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	22.7	18.2	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	20.9	14.0	
Base Number (BN)		ASTM D2896		8.8	8.0	9.0	
_ 333 (514)	9 1101119		3.0	0.0	0.0	0.0	



OIL ANALYSIS REPORT





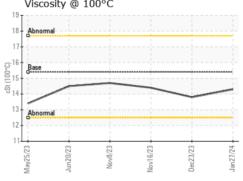
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

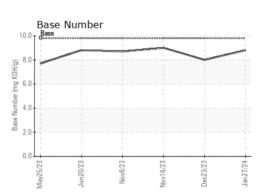
FLUID PROPI	ERIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.4	14.3	13.8	14.4

GRAPHS Ferrous Alloys

20 E 15

Non-ferrous Metals Viscosity @ 100°C









Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: GFL0108699 : 06075449 : 10857540 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2024 Diagnosed : 01 Feb 2024

Diagnostician : Wes Davis

GFL Environmental - 415 - Michigan East 6200 Elmridge

Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com T: (586)825-9514

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)