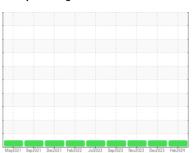


OIL ANALYSIS REPORT

Sample Rating Trend







7849M Component Diesel Engine

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

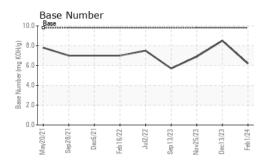
Fluid Condition

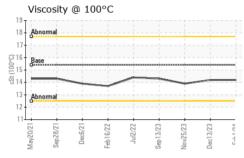
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

OAMBLE WEST		majzazi og		Jul2022 Sep2023 Nov2023 Dec20		11	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0108938	GFL0105620	GFL0101412	
Sample Date		Client Info		01 Feb 2024	13 Dec 2023	25 Nov 2023	
Machine Age	hrs	Client Info		10999	10528	10381	
Oil Age	hrs	Client Info		10528	10381	2600	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	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	37	10	29	
Chromium	ppm	ASTM D5185m	>5	1	<1	<1	
Nickel	ppm	ASTM D5185m	>2	<1	0	0	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>30	3	1	2	
Lead	ppm	ASTM D5185m	>30	2	0	<1	
Copper	ppm	ASTM D5185m	>150	1	0	1	
Tin	ppm	ASTM D5185m	>5	<1	0	<1	
Vanadium	ppm	ASTM D5185m		<1	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	2	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	56	56	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	1010	952	941	
Calcium	ppm	ASTM D5185m	1070	1106	1042	1037	
Phosphorus	ppm	ASTM D5185m	1150	1127	1053	1008	
Zinc	ppm	ASTM D5185m	1270	1271	1297	1275	
Sulfur	ppm	ASTM D5185m	2060	2593	3131	2719	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>20	4	3	3	
Sodium	ppm	ASTM D5185m		3	<1	8	
Potassium	ppm	ASTM D5185m	>20	4	0	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	1	0.4	1	
Nitration	Abs/cm	*ASTM D7624	>20	11.1	7.3	10.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.6	19.6	22.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.5	15.4	20.3	
Base Number (BN)	mg KOH/g	ASTM D2896		6.2	8.5	6.9	
Dado Hamber (DIA)	mg nong	, 10 I W DE000	0.0	0.2	0.0	0.0	



OIL ANALYSIS REPORT

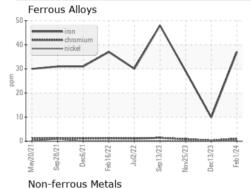


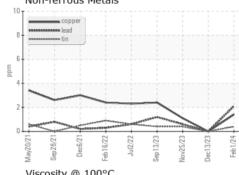


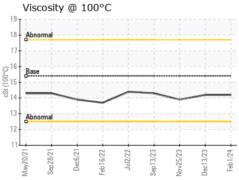
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

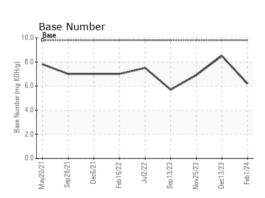
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.2	13.9	

GRAPHS













Certificate L2367

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

: 06079473 : 10861564

: GFL0108938

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 05 Feb 2024

: 05 Feb 2024 Diagnosed 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)