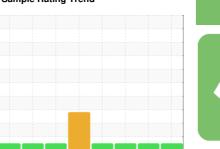


OIL ANALYSIS REPORT

Sample Rating Trend







7840M Component Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 QTS)

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

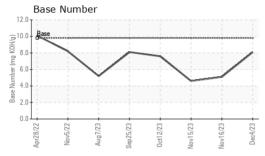
Fluid Condition

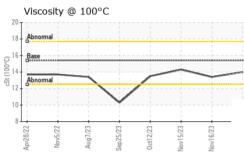
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORI	MOLTAN	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104131	GFL0059314	GFL0059234
Sample Date		Client Info		04 Dec 2023	16 Nov 2023	15 Nov 2023
Machine Age	hrs	Client Info		10738	10588	10574
Oil Age	hrs	Client Info		10510	228	214
Oil Changed	1110	Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
	1011					
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	3	60	86
Chromium	ppm	ASTM D5185m	>20	0	2	5
Nickel	ppm	ASTM D5185m	>5	0	5	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<1	2	8
Lead	ppm	ASTM D5185m	>40	0	<1	2
Copper	ppm	ASTM D5185m	>330	1	13	3
Tin	ppm	ASTM D5185m	>15	0	2	2
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	15	0	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	58	60	63
Manganese	ppm	ASTM D5185m	0	<1	1	1
Magnesium	ppm	ASTM D5185m	1010	858	906	954
Calcium	ppm	ASTM D5185m	1070	1186	1035	1106
Phosphorus	ppm	ASTM D5185m	1150	1001	945	1049
Zinc	ppm	ASTM D5185m	1270	1178	1194	1298
Sulfur	ppm	ASTM D5185m	2060	3049	2046	2607
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	14
Sodium	ppm	ASTM D5185m		3	6	11
Potassium	ppm	ASTM D5185m	>20	0	2	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.3	1.3	1.6
Nitration	Abs/cm	*ASTM D7624	>20	6.6	10.9	17.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.8	23.5	30.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	21.4	32.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	5.1	4.6
	0					



OIL ANALYSIS REPORT

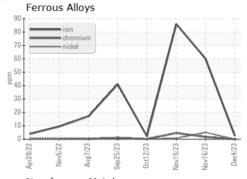


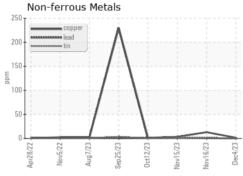


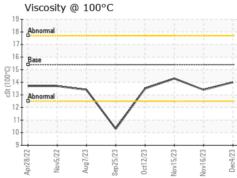
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

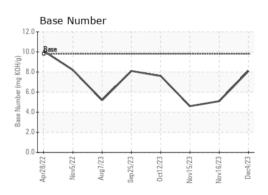
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.4	14.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10777178 Test Package : FLEET

: GFL0104131 : 06027387

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Dec 2023 Diagnosed : 08 Dec 2023

Diagnostician : Wes Davis

GFL Environmental - 410 - Michigan West 39000 Van Born Rd

Wayne, MI US 48184 Contact: Belal Dgheish

bdgheish@gflenv.com T: (734)714-2340

* - 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)