

OIL ANALYSIS REPORT

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Sample Rating Trend Oct. Discharge Control of Control

NORMAL



Machine Id 366M Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 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

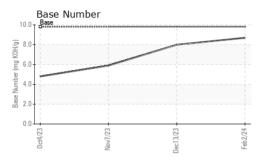
Fluid Condition

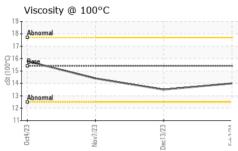
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)		Oct202	3 Nov2023	Dec2023 Fe	b2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110082	GFL0104224	GFL0059144
Sample Date		Client Info		02 Feb 2024	13 Dec 2023	07 Nov 2023
Machine Age	hrs	Client Info		3472	3018	27941
Oil Age	hrs	Client Info		600	3018	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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	>90	7	36	73
Chromium	ppm	ASTM D5185m	>20	<1	2	2
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	3
Aluminum	ppm	ASTM D5185m	>20	2	3	5
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	0	3	6
Tin	ppm	ASTM D5185m	>15	0	<1	0
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	2	2	<1
Barium	ppm	ASTM D5185m	0	5	0	6
Molybdenum	ppm	ASTM D5185m	60	55	52	68
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	893	857	962
Calcium	ppm	ASTM D5185m	1070	939	946	1197
Phosphorus	ppm	ASTM D5185m	1150	902	909	1066
Zinc	ppm	ASTM D5185m	1270	1154	1177	1287
Sulfur	ppm	ASTM D5185m	2060	2988	2591	3004
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	6	14
Sodium	ppm	ASTM D5185m		0	33	0
Potassium	ppm	ASTM D5185m	>20	2	3	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0	1	0.9
Nitration	Abs/cm	*ASTM D7624	>20	4.5	13.4	13.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	24.8	25.1
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	25.1	25.9
Base Number (BN)	mg KOH/g	ASTM D2896		8.7	8.0	5.9
(=. 1)	39					



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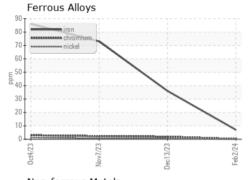


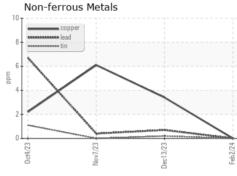


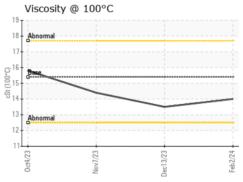
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

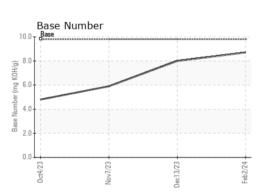
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.5	14.4

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 10863217

: GFL0110082 : 06081126 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06 Feb 2024 Recieved

Diagnosed : 06 Feb 2024 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

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: GFL410 [WUSCAR] 06081126 (Generated: 02/07/2024 07:58:59) Rev: 1

Submitted By: Belal Dgheish