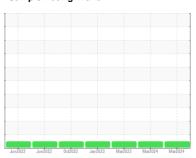


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id
359M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (9 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Early sampled)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

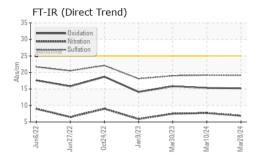
Fluid Condition

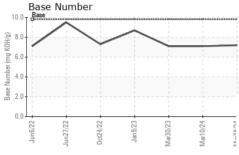
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

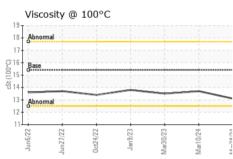
		ouncozz.	0011011			
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0115166	GFL0115187	GFL0072931
Sample Date		Client Info		28 Mar 2024	10 Mar 2024	30 Mar 2023
Machine Age	hrs	Client Info		17097	17095	16480
Oil Age	hrs	Client Info		22	615	818
Oil Changed		Client Info		Not Changd	Changed	Changed
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		ASTM D5185m	>120	10	7	6
	ppm			<1	0	0
Chromium	ppm	ASTM D5185m				
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m		4	<1	0
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		6	5	<1
Tin	ppm	ASTM D5185m	>15	<1	<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	4	0	4
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	60	55	57	56
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	864	897	896
Calcium	ppm	ASTM D5185m	1070	1006	989	1112
Phosphorus	ppm	ASTM D5185m	1150	968	1010	979
Zinc	ppm	ASTM D5185m	1270	1159	1186	1233
Sulfur	ppm	ASTM D5185m	2060	2975	3196	2769
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	4
Sodium	ppm	ASTM D5185m		2	2	3
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.2	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	6.9	7.7	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	19.2	19.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	15.3	15.8
Base Number (BN)		ASTM D2896				
Dase mulliber (DIN)	mg KOH/g	49 LINI D5030	9.8	7.2	7.1	7.1



OIL ANALYSIS REPORT



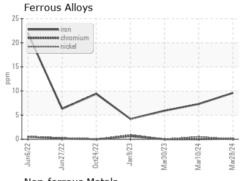


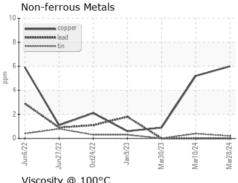


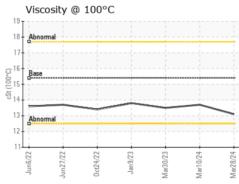
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

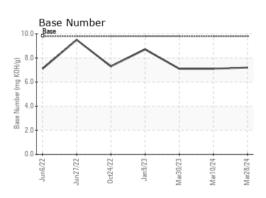
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	13.7	13.5

GRAPHS











Certificate L2367

Report Id: GFL405 [WUSCAR] 06136089 (Generated: 04/04/2024 13:14:08) Rev: 1

Laboratory Sample No. Lab Number : 06136089 Unique Number: 10955554

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: GFL0115166

Received : 02 Apr 2024 **Tested**

: 03 Apr 2024 Diagnosed : 04 Apr 2024 - Don Baldridge

GFL Environmental - 405 - Arbor Hills

7811 Chubb Rd NORTHVILLE, MI US 48168

Contact: John Nahal jnahal@gflenv.com

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)

T:

F: