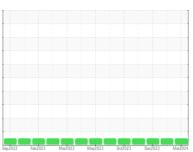


OIL ANALYSIS REPORT

Sample Rating Trend









Machine Id
812094
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

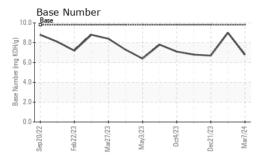
Fluid Condition

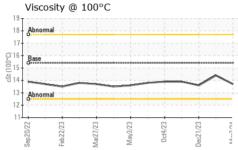
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

OANDIE WEST	MATION	Sep2022	11 No. 11	May2023 Oct2023 Dec2023	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113592	GFL0103834	GFL0103819
Sample Date		Client Info		07 Mar 2024	29 Dec 2023	21 Dec 2023
Machine Age	hrs	Client Info		7051	6514	6474
Oil Age	hrs	Client Info		580	40	556
Oil Changed		Client Info		Changed	N/A	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	ppm	ASTM D5185m	>120	9	0	7
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	2
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	7	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	60	54	57	47
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	1010	909	921	828
Calcium	ppm	ASTM D5185m	1070	1057	1058	1060
Phosphorus	ppm	ASTM D5185m	1150	880	1026	804
Zinc	ppm	ASTM D5185m	1270	1121	1247	1098
Sulfur	ppm	ASTM D5185m	2060	2949	3101	2467
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	3	3	3
Sodium	ppm	ASTM D5185m	. =0	4	2	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
INFRA-RED	PPIII	method	limit/base	current	history1	history2
	0/					
Soot %	% Ala a /area	*ASTM D7844	>4	0.6	0.1	0.5
Nitration	Abs/cm	*ASTM D7624	>20	8.5	4.9	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	17.8	19.5
FLUID DEGRAI	NOITAC	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	13.6	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.8	9.0	6.7



OIL ANALYSIS REPORT

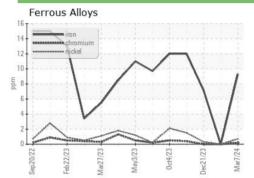


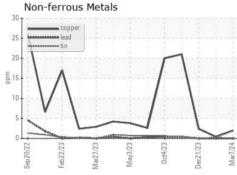


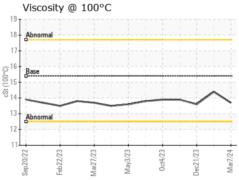
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

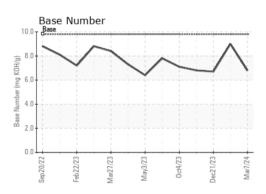
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	14.4	13.6

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0113592 Lab Number : 06114786 Unique Number: 10923619 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Mar 2024 **Tested**

Diagnosed

: 12 Mar 2024 : 12 Mar 2024 - Wes Davis

GFL Environmental - 654S - Midlothian 12230 Deergrove Road

Midlothian, VA US 23112

Contact: Corbin Umphlet

cumphlet@gflenv.com T:

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: GFL654S [WUSCAR] 06114786 (Generated: 03/12/2024 15:40:09) Rev: 1

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