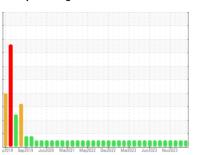


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



(D705HW)
Machine Id
2718
Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (40 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

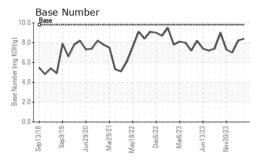
Fluid Condition

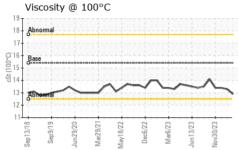
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

p2016 Smp2019 Jun2020 Mar2021 Mar2022 One2022 Mar2023 Jun2023 Nov2023							
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0098940	GFL0098999	GFL0099001	
Sample Date		Client Info		31 Jan 2024	02 Jan 2024	19 Dec 2023	
Machine Age	hrs	Client Info		14282	14129	14062	
Oil Age	hrs	Client Info		14062	13453	13453	
Oil Changed		Client Info		N/A	N/A	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	NC	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 METALS	6	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>165	7	5	20	
Chromium	ppm	ASTM D5185m	>5	<1	<1	1	
Nickel	ppm	ASTM D5185m	>4	0	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	1	2	2	
Lead	ppm	ASTM D5185m	>150	<1	<1	<1	
Copper	ppm	ASTM D5185m	>90	<1	0	<1	
Tin	ppm	ASTM D5185m	>5	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	0	2	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	53	51	58	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	906	882	938	
Calcium	ppm	ASTM D5185m	1070	1185	1143	1036	
Phosphorus	ppm	ASTM D5185m	1150	1023	1006	1058	
Zinc	ppm	ASTM D5185m	1270	1236	1245	1291	
Sulfur	ppm	ASTM D5185m	2060	3230	3084	2950	
CONTAMINANT	ΓS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	4	4	6	
Sodium	ppm	ASTM D5185m		1	0	5	
Potassium	ppm	ASTM D5185m	>20	2	0	3	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.1	0.1	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	5.6	5.7	9.7	
Sulfation	Abs/.1mm	*ASTM D7415		17.5	17.6	21.3	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	13.4	17.9	
	mg KOH/g	ASTM D2896	9.8	8.4	8.2	7.0	
= 200 · 10.11001 (D14)	99		5.0	U. .	0		



OIL ANALYSIS REPORT

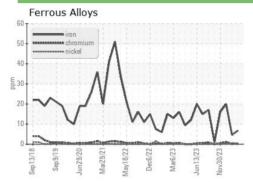


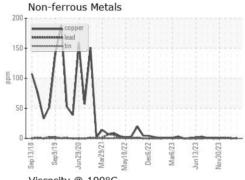


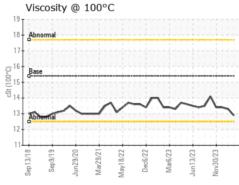
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual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

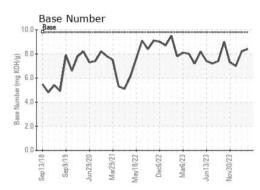
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.3	13.4

GRAPHS













Certificate L2367

Laboratory Sample No.

: GFL0098940

Lab Number : 06089877 Unique Number : 10882730 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Feb 2024

Tested Diagnosed

: 16 Feb 2024 : 16 Feb 2024 - Wes Davis

GFL Environmental - 084 - Clarksville

699 Jack Miller Boulevard Clarksville, TN

US 37042

Contact: ROBERT THIBAULT robert.thibault@gflenv.com

T: (931)552-7276

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)

Submitted By: GFL084,GFL842,GFL844,GFL846 - ROBERT THIBAULT

F: (931)572-9674