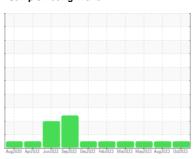


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **828031-1041**

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- LTR)

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

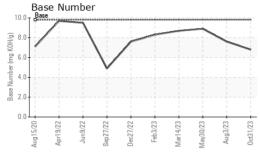
Fluid Condition

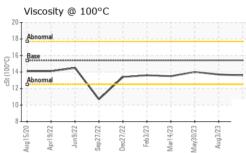
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LIK) Augliozo Aprilozz Junilozz Sopilozz Oncilozz Fobiloza Muriloza Muriloza Auglioza Onciloza							
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0097341	GFL0089521	GFL0067882	
Sample Date		Client Info		31 Oct 2023	03 Aug 2023	30 May 2023	
Machine Age	hrs	Client Info		76835	13234	76835	
Oil Age	hrs	Client Info		76835	511	76835	
Oil Changed		Client Info		N/A	Changed	N/A	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<1.0	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	NEG	
WEAR METALS method limit/base current history1 history2							
Iron	ppm	ASTM D5185m	>110	11	16	7	
Chromium	ppm	ASTM D5185m	>4	<1	1	<1	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m		0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>25	1	<1	2	
Lead	ppm	ASTM D5185m	>45	0	<1	0	
Copper	ppm	ASTM D5185m	>85	2	7	4	
Tin	ppm	ASTM D5185m	>4	<1	<1	0	
Vanadium	ppm	ASTM D5185m	24	0	<1	0	
Cadmium		ASTM D5185m		0	0	0	
	ppm					-	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	8	4	8	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	62	58	
Manganese	ppm	ASTM D5185m	0	0	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	902	1016	979	
Calcium	ppm	ASTM D5185m	1070	1040	1122	1072	
Phosphorus	ppm	ASTM D5185m	1150	977	1024	1041	
Zinc	ppm	ASTM D5185m	1270	1214	1281	1312	
Sulfur	ppm	ASTM D5185m	2060	2725	3349	3786	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	8	8	8	
Sodium	ppm	ASTM D5185m		5	6	2	
Potassium	ppm	ASTM D5185m	>20	<1	3	2	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.4	0.6	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.9	6.1	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	21.2	18.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9	16.3	14.1	
Base Number (BN)	mg KOH/g	ASTM D2896		6.8	7.6	8.9	
2400 (14111DOI (DIV)	mg nong	. 10 1111 DE000	5.0	0.0	7.0	0.0	



OIL ANALYSIS REPORT

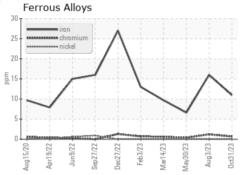


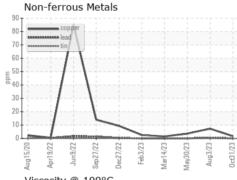


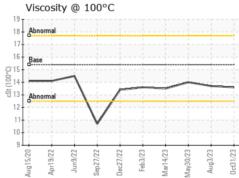
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

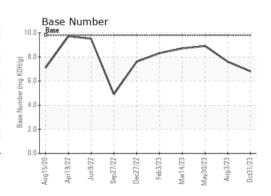
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number

Unique Number Test Package : FLEET

: GFL0097341 : 05997266 : 10725626

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Nov 2023 Diagnosed

: 03 Nov 2023 Diagnostician : 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)

F: