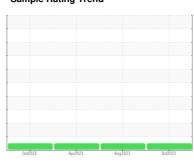


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **410022**

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

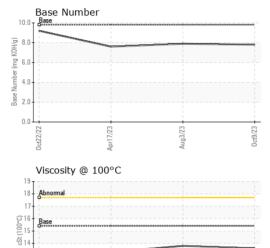
Fluid Condition

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

LIK)		Oct2023	2 Apr2023	Aug2023 0	ct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0084548	GFL0089497	GFL0078781	
Sample Date		Client Info		09 Oct 2023	03 Aug 2023	17 Apr 2023	
Machine Age	hrs	Client Info		6496	6014	5409	
Oil Age	hrs	Client Info		6496	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
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 METAL	.S	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	12	27	32	
Chromium	ppm	ASTM D5185m	>20	<1	2	2	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	0	
Silver	ppm	ASTM D5185m	>3	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	4	4	
Lead	ppm	ASTM D5185m	>40	0	1	0	
Copper	ppm	ASTM D5185m	>330	<1	<1	<1	
Tin	ppm	ASTM D5185m	>15	<1	<1	0	
Vanadium	ppm	ASTM D5185m		<1	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<1	6	18	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	62	67	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	961	1059	938	
Calcium	ppm	ASTM D5185m	1070	1055	1179	1092	
Phosphorus	ppm	ASTM D5185m	1150	1031	1097	998	
Zinc	ppm	ASTM D5185m	1270	1201	1322	1242	
Sulfur	ppm	ASTM D5185m	2060	2919	3673	3551	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	4	4	
Sodium	ppm	ASTM D5185m		5	5	1	
Potassium	ppm	ASTM D5185m	>20	4	7	14	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	7.9	9.8	8.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	20.3	17.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	17.0	15.2	
Base Number (BN)	mg KOH/g	ASTM D2896		7.8	7.9	7.6	
(=)	39						



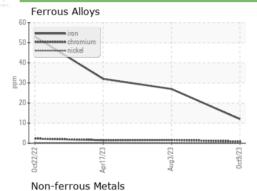
OIL ANALYSIS REPORT

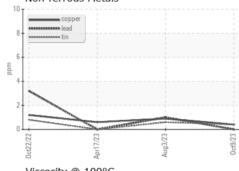


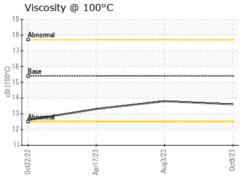
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

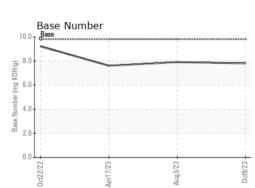
FLUID PROPE	:RHES	method			history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.8	13.3

GRAPHS











Certificate L2367

Laboratory Sample No.

Lab Number Unique Number : 10696577 Test Package : FLEET

: GFL0084548 : 05979282

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Oct 2023 Diagnosed

: 16 Oct 2023 Diagnostician : Wes Davis

GFL Environmental - 918 - Hartland HC

630 E Industrial Drive Hartland, WI US 53029

Contact: David McCall david.mccall@gflenv.com T: (262)369-3069

* - 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)