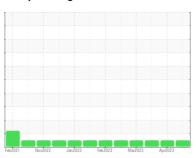


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **2414** Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

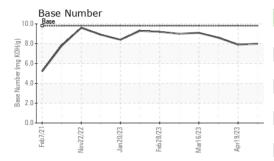
Fluid Condition

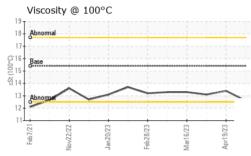
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

LTR)		Feb 2021	Nov2022 Jan2023	Feb 2023 Mar 2023 A	pr2023	
SAMPLE INFOR	RMATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0086280	GFL0081499	GFL0078240
Sample Date		Client Info		26 Jun 2023	19 Apr 2023	30 Mar 2023
Machine Age	hrs	Client Info		19339	19054	18913
Oil Age	hrs	Client Info		426	141	584
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history 1	history 2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	15	6	21
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>2	2	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	4	12
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	2	<1	2
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	2	7	3
Barium	ppm	ASTM D5185m	0	1	0	0
Molybdenum	ppm	ASTM D5185m	60	58	58	59
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	927	952	910
Calcium	ppm	ASTM D5185m	1070	1027	1018	1052
Phosphorus	ppm	ASTM D5185m	1150	970	1021	992
Zinc	ppm	ASTM D5185m		1185	1240	1229
Sulfur	ppm	ASTM D5185m	2060	3473	3780	3579
CONTAMINAN	NTS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	5	3	4
Sodium	ppm	ASTM D5185m		4	2	2
Potassium	ppm	ASTM D5185m	>20	10	0	<1
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.6	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.4	5.5	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	15.9	18.5
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	12.7	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	7.9	8.6



OIL ANALYSIS REPORT

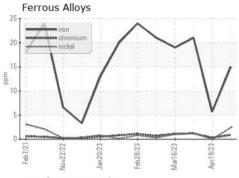


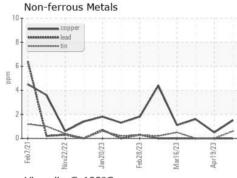


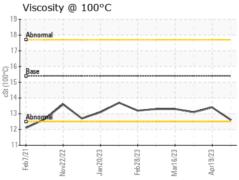
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

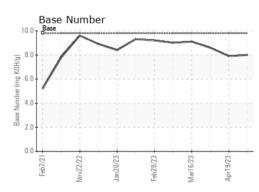
FLUID PROPE	RTIES	method			history 1	history 2
Visc @ 100°C	cSt	ASTM D445	15.4	12.6	13.4	13.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: 05891040 : 10546850

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0086280

Received Diagnosed

: 06 Jul 2023 : 07 Jul 2023 Diagnostician : Don Baldridge GFL Environmental - 868 - Childersburg Fines Hauling (Alpine) 13737 Plant Rd

Childersburg, AL US 35044

Contact: JONATHAN WILLIAMS jonathan.williams@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: