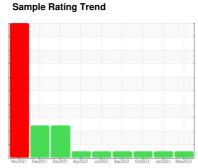


OIL ANALYSIS REPORT

Machine Id **3715** Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (8 GAL)





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 oil.

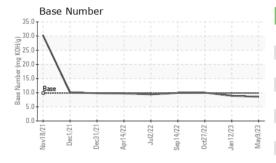
Fluid Condition

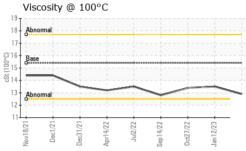
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Nov2021 Dec2021 Dec2021 Apr2022 Juli022 Septi022 Oct022 Juni023 May2023						
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0070492	GFL0070496	GFL0058554
Sample Date		Client Info		09 May 2023	12 Jan 2023	27 Oct 2022
Machine Age	hrs	Client Info		23862	23862	23252
Oil Age	hrs	Client Info		23862	610	334
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history 1 history 2						
Iron	ppm	ASTM D5185m	>90	31	18	11
Chromium	ppm	ASTM D5185m	>4	2	1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	10	7	4
Lead	ppm	ASTM D5185m	>50	<1	0	<1
Copper	ppm	ASTM D5185m	>55	4	3	2
Tin	ppm	ASTM D5185m	>4	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	3	6	15
Barium	ppm	ASTM D5185m	0	2	1	2
Molybdenum	ppm	ASTM D5185m	60	60	61	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	874	908	899
Calcium	ppm	ASTM D5185m	1070	1089	1093	1137
Phosphorus	ppm	ASTM D5185m	1150	1000	989	1015
Zinc	ppm	ASTM D5185m	1270	1176	1174	1206
Sulfur	ppm	ASTM D5185m	2060	3060	3168	3401
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>15	9	7	4
Sodium	ppm	ASTM D5185m		20	6	3
Potassium	ppm	ASTM D5185m	>20	3	1	2
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>6	0.3	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.7	7.2	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.8	19.0
FLUID DEGRA	OATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.1	14.2	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	8.9	10.0
, ,						



OIL ANALYSIS REPORT

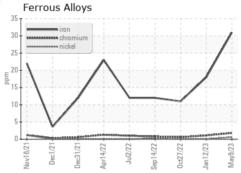


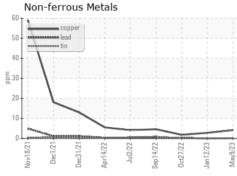


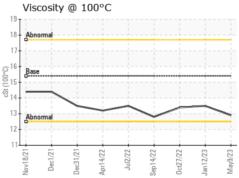
VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

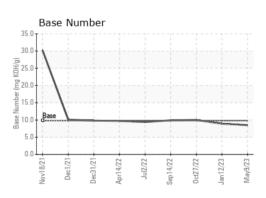
FLUID PROPERTIES		method			history 1	history 2	
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	13.5	13.4	

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0070492 : 05846845 : 10470952

Received Diagnosed

: 15 May 2023 : 16 May 2023 Diagnostician : Wes Davis

GFL Environmental - 19DR - Deep Run/TriEast

2287 Leslie R Stroud Road Kinston, NC US 28504-9477 Contact: Spencer Liggon spencer.liggon@gflenv.com

T: (800)207-6618

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)