

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id **2525** 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

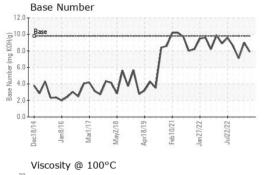
Fluid Condition

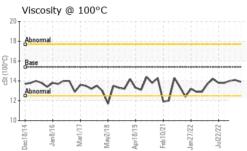
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

[AL] c2014 Jan2016 Mar2017 May2018 Apr2019 Feb2021 Jan2022 Jul2022						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0080551	GFL0074430	GFL0066823
Sample Date		Client Info		20 Jul 2023	25 Apr 2023	07 Apr 2023
Machine Age	hrs	Client Info		149169	149169	149169
Oil Age	hrs	Client Info		149169	149169	149169
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS method limit/base current history1 history2						
Iron	ppm	ASTM D5185m	>165	50	32	<u>^</u> 205
Chromium	ppm	ASTM D5185m	>5	3	<1	5
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	8
Lead	ppm	ASTM D5185m	>150	6	0	14
Copper	ppm	ASTM D5185m	>90	1	<1	8
Tin	ppm	ASTM D5185m	>5	<1	0	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	4	4	15
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	68	62	63
Manganese	ppm	ASTM D5185m	0	<1	<1	2
Magnesium	ppm	ASTM D5185m	1010	1028	929	614
Calcium	ppm	ASTM D5185m	1070	1239	1103	1352
Phosphorus	ppm	ASTM D5185m	1150	1129	1026	874
Zinc	ppm	ASTM D5185m	1270	1390	1304	1064
Sulfur	ppm	ASTM D5185m	2060	3740	3386	2604
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	7	5	17
Sodium	ppm	ASTM D5185m		6	4	8
Potassium	ppm	ASTM D5185m	>20	<1	16	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	1.4	0.4	2.1
Nitration	Abs/cm	*ASTM D7624	>20	11.7	6.6	13.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	19.0	27.0
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.8	14.8	22.6
Base Number (BN)	mg KOH/g			7.9	9.0	7.1
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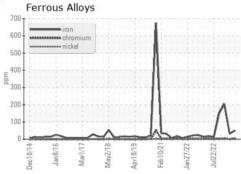


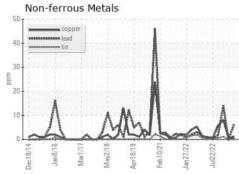


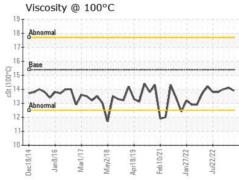
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

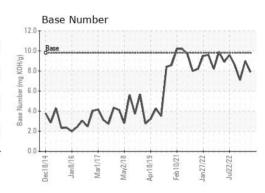
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.1	14.0

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05904182 : 10565538

: GFL0080551 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Jul 2023 Diagnosed : 21 Jul 2023

Diagnostician : Wes Davis

Hope Mills, NC US 28348 Contact: Robert Carter robert.carter@gflenv.com T: (910)596-1170

4621 Marracco Drive

GFL Environmental - 018 - Fayetteville

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)