

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 3773 Diesel Engine

PETRO CANADA DURON SHP 15W40 (30 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.

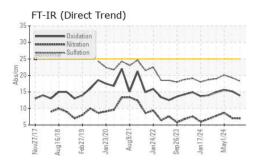
Fluid Condition

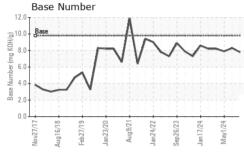
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

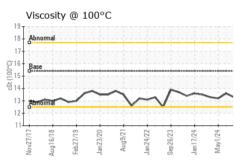
742017 Aug2018 Feb2019 Jan2020 Aug2021 Jan2020 Sep2023 Jan2024 May2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0121437	GFL0121423	GFL0115855
Sample Date		Client Info		10 Jun 2024	01 Jun 2024	01 May 2024
Machine Age	hrs	Client Info		15236	18985	15083
Oil Age	hrs	Client Info		0	125	9360
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	10	10	22
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	2	2	2
Lead	ppm	ASTM D5185m	>150	0	<1	2
Copper	ppm	ASTM D5185m	>90	2	1	2
Tin	ppm	ASTM D5185m	>5	0	<1	<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	12	15	7
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	69	66	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	933	910	924
Calcium	ppm	ASTM D5185m	1070	1112	1052	1099
Phosphorus	ppm	ASTM D5185m	1150	1100	1078	1064
Zinc	ppm	ASTM D5185m	1270	1267	1217	1243
Sulfur	ppm	ASTM D5185m	2060	3628	3540	3345
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	5	6	6
Sodium	ppm	ASTM D5185m		12	12	34
Potassium	ppm	ASTM D5185m	>20	3	2	1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.2	0.2	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.1	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	19.3	20.1
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	15.2	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.8	8.3	7.9



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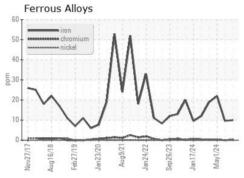


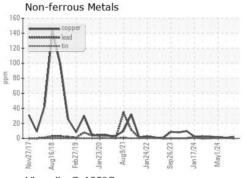


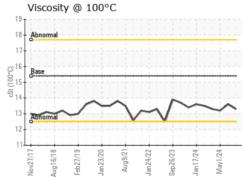
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

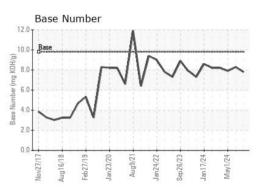
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.6	13.2	

GRAPHS













Certificate 12367

Laboratory Sample No.

Lab Number : 06211367 Unique Number : 11084231

: GFL0121437 Test Package : FLEET

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested**

: 19 Jun 2024 Diagnosed : 19 Jun 2024 - Wes Davis

13737 Plant Rd Childersburg, AL

US 35044 Contact: JONATHAN WILLIAMS jonathan.williams@gflenv.com T:

GFL Environmental - 868 - Childersburg Fines Hauling (Alpine)

* - 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)

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