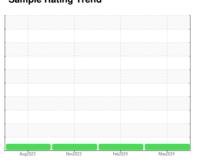


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
813036
Component

Diesel Engine

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

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.

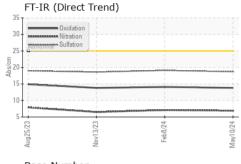
Fluid Condition

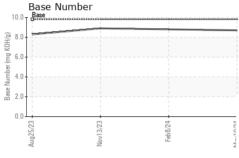
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

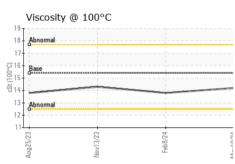
AL)		Aug202	3 Nov2023	Feb 2024 M	ay2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116122	GFL0109018	GFL0096885
Sample Date		Client Info		10 May 2024	08 Feb 2024	13 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		600	0	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	TION	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
ron	ppm	ASTM D5185m	>75	15	26	10
Chromium	ppm	ASTM D5185m	>5	1	1	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	9	7	2
_ead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	2	2	0
Γin	ppm	ASTM D5185m	>4	<1	0	0
/anadium	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	6	<1	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	62	58
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	956	929	1002
Calcium	ppm	ASTM D5185m	1070	1053	1043	1135
Phosphorus	ppm	ASTM D5185m	1150	1038	952	1114
Zinc	ppm	ASTM D5185m	1270	1259	1189	1412
Sulfur	ppm	ASTM D5185m	2060	3561	2954	3340
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4	2
Sodium	ppm	ASTM D5185m		4	<1	2
Potassium	ppm	ASTM D5185m	>20	17	20	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.6	0.6	0.5
Vitration	Abs/cm	*ASTM D7624	>20	6.9	7.1	6.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	19.1	18.6
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	14.1	13.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.7	8.8	8.9

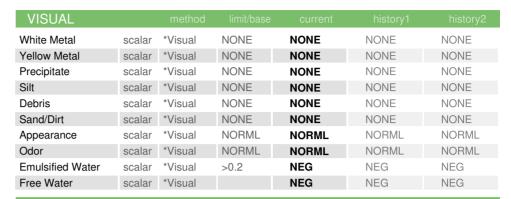


OIL ANALYSIS REPORT



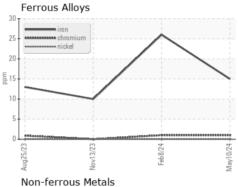


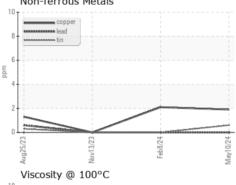


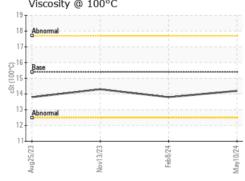


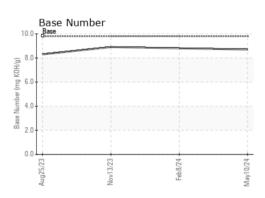
L LLOID PROPI	ERITES	memod			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	13.8	14.3

GRAPHS













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: GFL0116122 Lab Number : 06185824 Unique Number : 11042576 Test Package : FLEET

Received : 21 May 2024 **Tested** Diagnosed

: 22 May 2024 : 22 May 2024 - Wes Davis

GFL Environmental - 401 - Fort Wayne Hauling 4429 ALLEN MARTIN DR

FORT WAYNE, IN US 46806

Contact: Zachory Roehm zroehm@gflenv.com

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