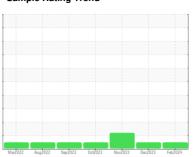


OIL ANALYSIS REPORT

Sample Rating Trend







Machine 461 Compoi Diese Fluid PETR

Machine Id
4611M
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (36 QTS)

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

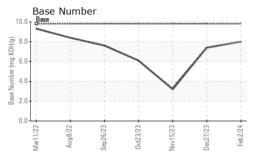
Fluid Condition

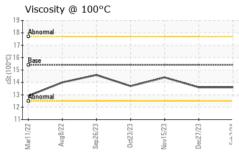
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

`		Mar2022	Aug2022 Sep2023	Oct2023 Nov2023 Dec2023	Feb2024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110027	GFL0104314	GFL0059245
Sample Date		Client Info		02 Feb 2024	27 Dec 2023	15 Nov 2023
Machine Age	hrs	Client Info		21742	21327	21061
Oil Age	hrs	Client Info		600	21203	21061
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ΓΙΟΝ	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	>90	12	13	87
Chromium	ppm	ASTM D5185m	>20	<1	<1	4
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	<1	8
Lead	ppm	ASTM D5185m	>40	0	0	2
Copper	ppm	ASTM D5185m	>330	<1	3	4
Tin	ppm	ASTM D5185m	>15	0	<1	2
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	2	2	5
Barium	ppm	ASTM D5185m	0	5	0	0
Molybdenum	ppm	ASTM D5185m	60	80	59	63
Manganese	ppm	ASTM D5185m	0	0	<1	1
Magnesium	ppm	ASTM D5185m	1010	1281	964	957
Calcium	ppm	ASTM D5185m	1070	1261	1105	1110
Phosphorus	ppm	ASTM D5185m	1150	1182	983	1045
Zinc	ppm	ASTM D5185m	1270	1638	1232	1310
Sulfur	ppm	ASTM D5185m	2060	3828	2872	2604
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	14
Sodium	ppm	ASTM D5185m		3	3	11
Potassium	ppm	ASTM D5185m	>20	5	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.1	0.5	1.6
Nitration	Abs/cm	*ASTM D7624	>20	7.4	8.1	16.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	19.5	30.1
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	15.6	31.5
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	7.4	△ 3.2
Dase Mullipel (DIV)	IIIg NOD/g	70 LINI D5030	5.0	0.0	7.4	0.2



OIL ANALYSIS REPORT

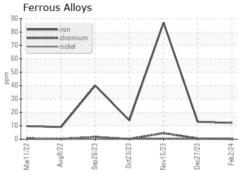


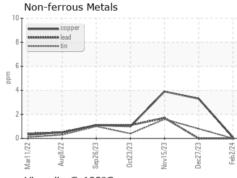


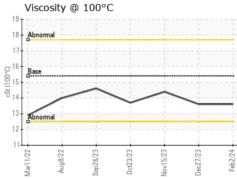
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

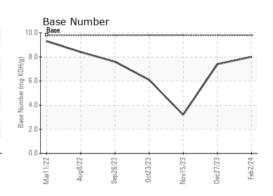
FLUID PROPE	RTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.6	14.4

GRAPHS













Laboratory Sample No.

Test Package : FLEET

: GFL0110027 Lab Number : 06081124 Unique Number : 10863215

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Feb 2024

Tested : 07 Feb 2024 Diagnosed : 07 Feb 2024 - Don Baldridge

GFL Environmental - 410 - Michigan West

39000 Van Born Rd Wayne, MI US 48184

Contact: Belal Dgheish bdgheish@gflenv.com T: (734)714-2340

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)