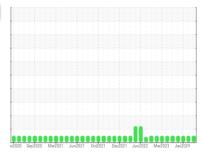


OIL ANALYSIS REPORT

Sample Rating Trend







12022 Component Diesel Engine

Machine Id

PETRO CANADA DURON SHP 15W40 (10 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

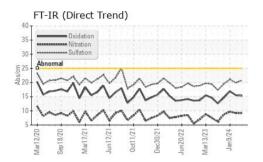
Fluid Condition

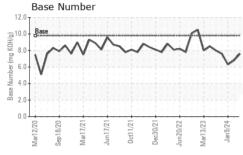
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

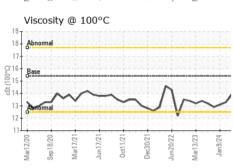
une,						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124243	PCA0113466	PCA0101772
Sample Date		Client Info		13 Jun 2024	15 Mar 2024	09 Jan 2024
Machine Age	hrs	Client Info		11611	11029	10591
Oil Age	hrs	Client Info		582	438	605
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	29	29	36
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	13	15	16
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	4	11
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	11	8
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	56	73	71
Manganese	ppm	ASTM D5185m	0	0	0	<1
Magnesium	ppm	ASTM D5185m	1010	716	768	871
Calcium	ppm	ASTM D5185m	1070	1445	1529	1183
Phosphorus	ppm	ASTM D5185m	1150	1025	1148	982
Zinc	ppm	ASTM D5185m	1270	1222	1307	1267
Sulfur	ppm	ASTM D5185m	2060	3432	3382	2730
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	6	7
Sodium	ppm	ASTM D5185m		4	4	3
Potassium	ppm	ASTM D5185m	>20	24	27	22
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.8	0.9
Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	19.9	21.1
FLUID DEGRADATION method limit/base current history1 history2						history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.5	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	6.8	6.3
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OIL ANALYSIS REPORT



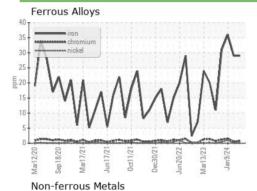


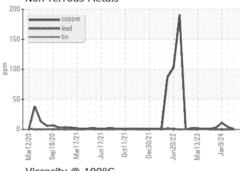


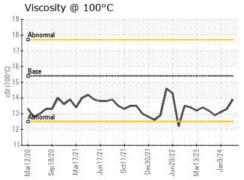
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

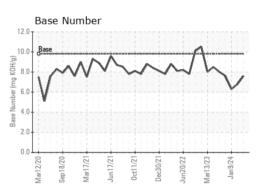
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.3	13.1

GRAPHS













Laboratory Sample No. Unique Number : 11084117

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0124243 Lab Number : 06211253

Received : 17 Jun 2024 **Tested** : 18 Jun 2024 Diagnosed

: 18 Jun 2024 - Wes Davis

GFL Environmental - 002 - Vance-Granville 241 Vanco Mill Rd

Henderson, NC US 27537 Contact: Cameron King

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

cameron.king@gflenv.com T: (252)438-5333

* - 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)

F: (252)431-1635 Submitted By: Cameron King