

OIL ANALYSIS REPORT

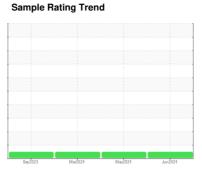


(BD56601) {UNASSIGNED} 914018

Component

1 Diesel Engine

PETRO CANADA DURON SHP 15W40 (9 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

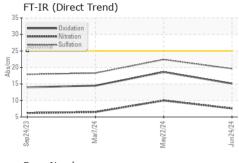
Fluid Condition

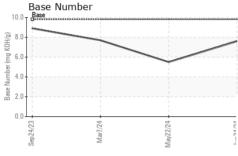
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

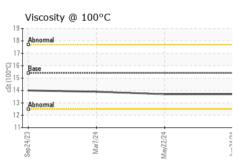
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0124756	GFL0115197	GFL0115098
Sample Date		Client Info		24 Jun 2024	22 May 2024	07 Mar 2024
Machine Age	hrs	Client Info		3323	1163	1153
Oil Age	hrs	Client Info		600	342	332
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	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 METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	17	35	2
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	4	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m		<1	2	2
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m		5	17	0
Tin	ppm	ASTM D5185m		0	1	0
Vanadium	ppm	ASTM D5185m	7.0	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	0
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	53	54	58
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	1010	880	841	938
Calcium	ppm	ASTM D5185m	1070	1101	1000	1028
Phosphorus	ppm	ASTM D5185m	1150	1019	941	1019
Zinc	ppm	ASTM D5185m	1270	1219	1164	1241
Sulfur	ppm	ASTM D5185m	2060	3149	2473	3342
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	5	3
Sodium	ppm	ASTM D5185m		3	5	5
Potassium	ppm	ASTM D5185m	>20	<1	3	0
INFRA-RED		method	limit/base	current	history1	history2
		*ASTM D7844	>4	0.7	1.1	0.2
Soot %	%	//OTIVI D/OTT				
	% Abs/cm	*ASTM D7624	>20	7.6	10.0	6.5
Soot %				7.6 19.6	10.0 22.4	6.5 18.3
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624				
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>30	19.6	22.4	18.3

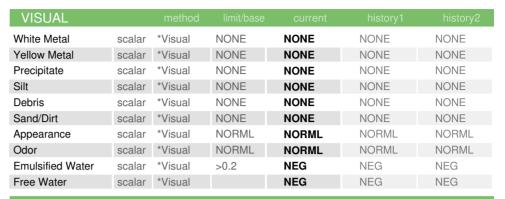


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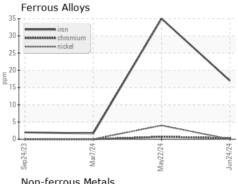


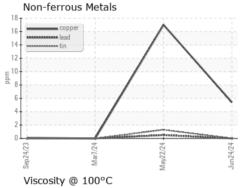


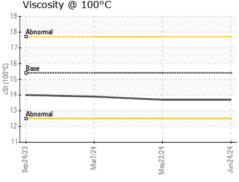


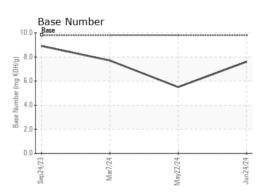
FLUID PROPI	ERHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	13.7	13.9

GRAPHS













Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: GFL0124756 Lab Number : 06231308 Unique Number : 11114801

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

: 10 Jul 2024 Diagnosed : 10 Jul 2024 - Wes Davis

: 09 Jul 2024

7811 Chubb Rd NORTHVILLE, MI US 48168

Contact: Anthony Hopkins ahopkins@gflenv.com

GFL Environmental - 405 - Arbor Hills

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)

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