

OIL ANALYSIS REPORT

Sample Rating Trend

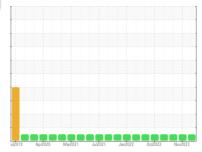




(YA150075) 10988 Component

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

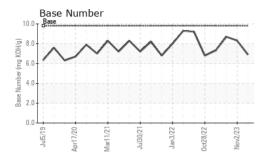
Fluid Condition

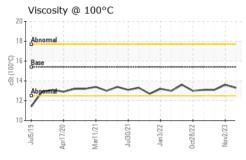
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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SAMPLE INFO	PRMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0104085	GFL0068128	GFL0068158	
Sample Date		Client Info		26 Feb 2024	02 Nov 2023	05 Apr 2023	
Machine Age	hrs	Client Info		9835	1860	8219	
Oil Age	hrs	Client Info		600	600	600	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINA	NOITA	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 META	ALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>120	8	4	3	
Chromium	ppm	ASTM D5185m	>20	1	0	<1	
Nickel	ppm	ASTM D5185m	>5	<1	0	<1	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	5	6	0	
Lead	ppm	ASTM D5185m	>40	<1	<1	0	
Copper	ppm		>330	1	<1	2	
Tin	ppm	ASTM D5185m	>15	<1	0	<1	
Vanadium	ppm	ASTM D5185m	710	<1	0	0	
Cadmium	ppm	ASTM D5185m		<1	0	0	
ADDITIVES	le le tra	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	6	5	18	
Barium	ppm	ASTM D5185m	0	1	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	58	55	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	826	907	777	
Calcium	ppm	ASTM D5185m	1070	954	1044	1022	
Phosphorus	ppm	ASTM D5185m	1150	937	1010	913	
Zinc	ppm	ASTM D5185m	1270	1123	1213	1068	
Sulfur	ppm	ASTM D5185m	2060	3119	3051	2490	
CONTAMINA		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m		5	3	4	
Sodium	ppm	ASTM D5185m	- 20	2	2	2	
Potassium	ppm	ASTM D5185m	>20	6	10	1	
INFRA-RED	1-1-	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>4	0.3	0.3	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.1	6.4	
Sulfation	Abs/.1mm	*ASTM D7624	>30	19.2	19.1	17.6	
FLUID DEGRADATION method limit/base current history1 history2							
					•		
Oxidation Base Number (BN	Abs/.1mm M) mg KOH/g	*ASTM D7414 ASTM D2896	>25	15.8 6.9	15.2 8.3	13.3 8.7	
		V = 1 V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UV	60	0.7		



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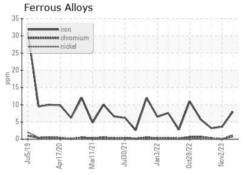


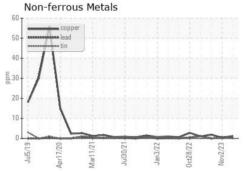


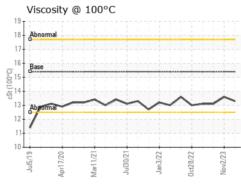
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

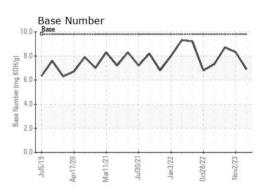
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.3	13.6	13.1

GRAPHS













Sample No.

: GFL0104085 Lab Number : 06101473 Unique Number : 10899703

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Feb 2024

Diagnosed Test Package : FLEET

Tested : 28 Feb 2024 : 28 Feb 2024 - Wes Davis

GFL Environmental - 028 - Weldon 2211 US Highway 301

Halifax, NC US 27839

Contact: TRAVIS PORCH

tporch@gflenv.com T: (252)532-3344

* - 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)