

OIL ANALYSIS REPORT

(YA144056) 3795c

Diesel Engine

PETRO CANADA DURON SHP 15W40 (8 GAL)

Sample Rating Trend



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

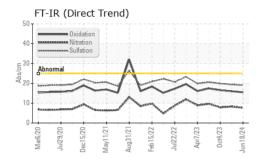
Fluid Condition

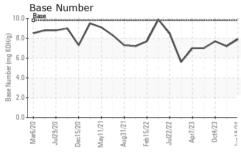
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

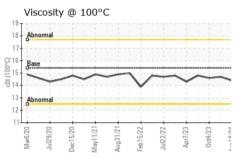
SAMPLE INFORM	4ATION	method	limit/base	current	history1	history2	
	AHON		mmoasc				
Sample Number		Client Info		GFL0116011 18 Jun 2024	GFL0080516 13 Oct 2023	GFL0080557 04 Oct 2023	
Sample Date Machine Age	hrs	Client Info		0	5589	5589	
Oil Age	hrs	Client Info		0	5589	5589	
Oil Changed	1115	Client Info		N/A	Changed	Changed	
Sample Status		Ciletit iiiio		NORMAL	NORMAL	NORMAL	
	ON		11 11 11				
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	>75	7	14	11	
Chromium	ppm	ASTM D5185m	>5	<1	2	1	
Nickel	ppm	ASTM D5185m	>4	0	1	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	0	1	
Lead	ppm	ASTM D5185m	>25	0	<1	0	
Copper	ppm	ASTM D5185m	>100	0	<1	<1	
Tin	ppm	ASTM D5185m	>4	<1	<1	0	
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	13	28	29	
Barium	ppm	ASTM D5185m	0	0	2	0	
Molybdenum	ppm	ASTM D5185m	60	52	53	52	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	765	542	659	
Calcium	ppm	ASTM D5185m	1070	1385	1475	1592	
Phosphorus	ppm	ASTM D5185m	1150	909	787	863	
Zinc	ppm	ASTM D5185m	1270	1094	893	1033	
Sulfur	ppm	ASTM D5185m	2060	3168	2303	2562	
CONTAMINANTS method limit/base current history1 history2							
Silicon	ppm	ASTM D5185m	>25	5	6	5	
Sodium	ppm	ASTM D5185m		4	2	4	
Potassium	ppm	ASTM D5185m	>20	3	2	0	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>6	0.1	0	0	
Nitration	Abs/cm	*ASTM D7624	>20	7.7	8.3	7.9	
Sulfation	Abs/.1mm	*ASTM D7415		19.1	19.4	19.9	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	16.0	16.5	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.9	7.2	7.7	



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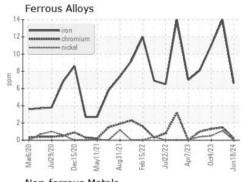


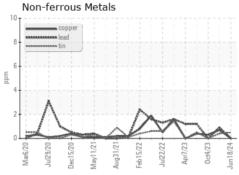


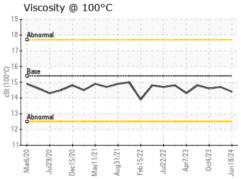
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

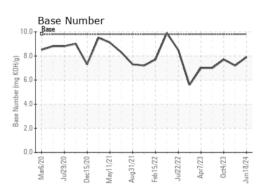
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Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.7	14.6

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0116011 Lab Number : 06214465

Unique Number : 11087329 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Jun 2024

Tested : 20 Jun 2024 Diagnosed : 20 Jun 2024 - Wes Davis

GFL Environmental - 018 - Fayetteville

4621 Marracco Drive Hope Mills, NC US 28348

Contact: CHRIS HALL christopherh@gflenv.com

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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