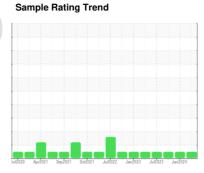


OIL ANALYSIS REPORT

(40971HA) 827017-1028

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 LTR)





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

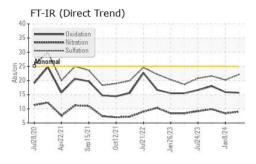
Fluid Condition

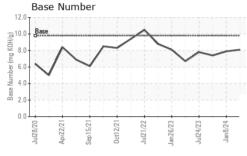
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

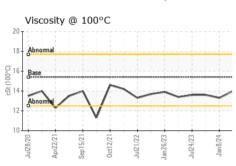
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0077763	GFL0077756	GFL0077806	
Sample Date		Client Info		02 Apr 2024	08 Jan 2024	27 Oct 2023	
Machine Age	hrs	Client Info		18760	18237	17755	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
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	>165	37	26	20	
Chromium	ppm	ASTM D5185m	>5	1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	<1	
Aluminum	ppm	ASTM D5185m	>20	1	1	2	
Lead	ppm	ASTM D5185m	>150	<1	1	6	
Copper	ppm	ASTM D5185m	>90	0	<1	<1	
Tin	ppm	ASTM D5185m	>5	<1	0	<1	
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	6	6	7	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	61	64	64	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	1010	963	1028	993	
Calcium	ppm	ASTM D5185m	1070	1064	1167	1095	
Phosphorus	ppm	ASTM D5185m	1150	1037	1051	1035	
Zinc	ppm	ASTM D5185m	1270	1264	1296	1380	
Sulfur	ppm	ASTM D5185m	2060	2915	3036	3093	
CONTAMINAN	NTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	5	6	8	
Sodium	ppm	ASTM D5185m		3	4	3	
Potassium	ppm	ASTM D5185m	>20	0	0	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	1.8	0.5	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.4	9.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	20.2	21.6	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.7	15.9	18.0	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	7.9	7.4	
(311)				<u></u>			



OIL ANALYSIS REPORT



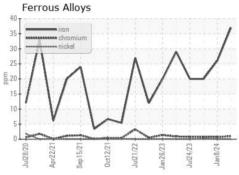


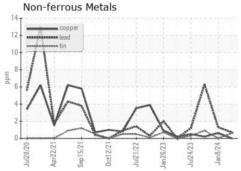


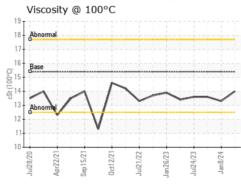
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

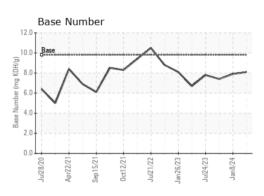
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.0	13.3	13.6

GRAPHS













Laboratory Sample No. Lab Number : 06142141 Unique Number : 10966949

: GFL0077763

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Apr 2024 **Tested** : 09 Apr 2024

Diagnosed : 09 Apr 2024 - Wes Davis

GFL Environmental - 650 - West Point Hauling

7825 Parham Landing Road West Point, VA US 23181

Contact: Jason Smith jasonsmith@gflenv.com

Certificate 12367 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)

T:

F: