

OIL ANALYSIS REPORT

(68J1UN) 429050-402452

Diesel Engine

PETRO CANADA DURON SHP 15W40 (12 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

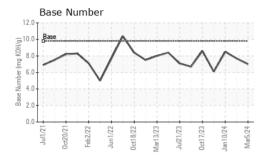
Fluid Condition

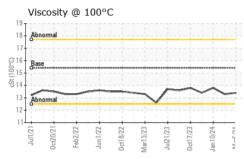
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

·				122 Mar2023 Jul2023 Oct2023 Jai	12024 Mar202		
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0109176	GFL0109234	GFL0098359	
Sample Date		Client Info		05 Mar 2024	15 Feb 2024	10 Jan 2024	
Machine Age	hrs	Client Info		15429	15327	15003	
Oil Age	hrs	Client Info		700	700	121	
Oil Changed		Client Info		Not Changd	Not Changd	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	5	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>165	8	16	3	
Chromium	ppm	ASTM D5185m	>5	<1	1	<1	
Nickel	ppm	ASTM D5185m	>4	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	1	<1	
Lead	ppm	ASTM D5185m	>150	2	4	<1	
Copper	ppm	ASTM D5185m	>90	- <1	2	<1	
Tin	ppm	ASTM D5185m	>5	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	<1	
Cadmium	ppm	ASTM D5185m		0	0	0	
	PP		limit/booo				
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	1	
Barium	ppm		0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	63	66	61	
Manganese	ppm	ASTM D5185m	0	0	<1	0	
Magnesium	ppm	ASTM D5185m	1010	940	995	1024	
Calcium	ppm	ASTM D5185m	1070	1067	1088	1096	
Phosphorus	ppm	ASTM D5185m	1150	1038	1069	1117	
Zinc	ppm	ASTM D5185m	1270	1228	1288	1310	
Sulfur	ppm	ASTM D5185m	2060	2975	3059	3426	
CONTAMINANTS method limit/base current history1 history2						history2	
Silicon	ppm	ASTM D5185m	>35	4	6	3	
Sodium	ppm	ASTM D5185m		6	52	7	
Potassium	ppm	ASTM D5185m	>20	3	18	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	0.4	0.5	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	10.1	8.8	6.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	20.2	18.5	
FLUID DEGRADATION method limit/base current history1 history2							
	A la a / d	*ACTM D7414	>25	19.2	16.0	14.9	
Oxidation	Abs/.1mm	*ASTM D7414	>23	19.2	10.0	14.9	
Oxidation Base Number (BN)	mg KOH/g	ASTM D2896		7.0	7.7	8.5	



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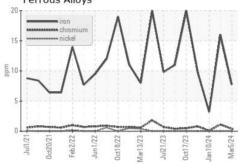


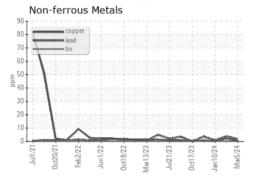
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

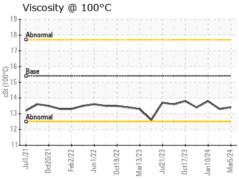
FLUID PROPI	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.4	13.3	13.8

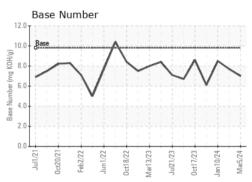
GRAPHS

Ferrous Alloys













Certificate L2367

Laboratory Sample No. Lab Number : 06116772

Test Package : FLEET

: GFL0109176

Unique Number : 10925605

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Mar 2024 **Tested** : 14 Mar 2024

Diagnosed : 14 Mar 2024 - Wes Davis

GFL Environmental - 822 - Springfield Hauling

2120 West Bennett Street

Springfield, MO US 65807

Contact: Dennis Moore dennis.moore@gflenv.com

T: (417)403-3641

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)