

OIL ANALYSIS REPORT

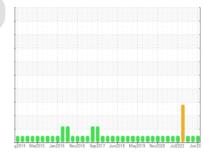
(YA116924)

2512

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (30 GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Woor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

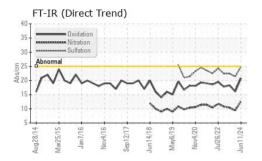
Fluid Condition

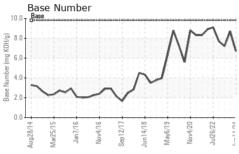
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

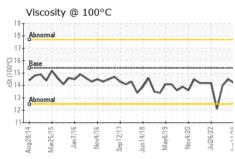
GAL)							
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0082425	GFL0082444	GFL0050792	
Sample Date		Client Info		11 Jun 2024	07 Sep 2023	03 May 2023	
Machine Age	mls	Client Info		493220	20950	20327	
Oil Age	mls	Client Info		492220	350	598	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINAT	ION	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	27	16	29	
Chromium	ppm	ASTM D5185m	>5	2	1	1	
Nickel	ppm	ASTM D5185m	>4	0	<1	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	1	3	
Lead	ppm	ASTM D5185m	>150	4	2	0	
Copper	ppm	ASTM D5185m	>90	1	3	10	
Tin	ppm	ASTM D5185m	>5	<1	2	1	
Vanadium	ppm	ASTM D5185m		<1	0	<1	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	1	5	
Barium	ppm	ASTM D5185m	0	0	44	0	
Molybdenum	ppm	ASTM D5185m	60	66	57	62	
Manganese	ppm	ASTM D5185m	0	<1	1	<1	
Magnesium	ppm	ASTM D5185m	1010	1149	888	940	
Calcium	ppm	ASTM D5185m	1070	1308	965	1192	
Phosphorus	ppm	ASTM D5185m	1150	1227	933	1010	
Zinc	ppm	ASTM D5185m	1270	1533	1137	1296	
Sulfur	ppm	ASTM D5185m	2060	4094	3156	3219	
CONTAMINAN	ITS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>35	9	10	21	
Sodium	ppm	ASTM D5185m		6	6	5	
Potassium	ppm	ASTM D5185m	>20	3	4	<1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>7.5	1.2	1.2	1.4	
Nitration	Abs/cm	*ASTM D7624	>20	12.7	9.4	10.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.9	21.4	22.4	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.8	16.1	18.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.7	8.7	7.2	
(214)				•			



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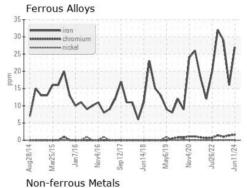


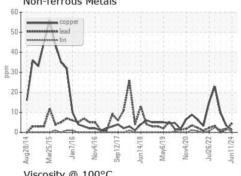


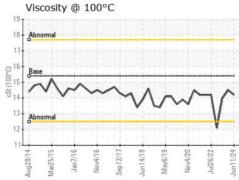
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

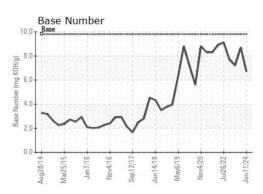
FLUID PROPE	:RHES	method				history2
Visc @ 100°C	cSt	ASTM D445	15.4	14.2	14.5	14.0

GRAPHS













Certificate 12367

Laboratory Sample No.

: GFL0082425 Lab Number : 06215579 Unique Number : 11088443

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024

Tested : 21 Jun 2024 Diagnosed : 21 Jun 2024 - Wes Davis

2809 Galloway Road Bolivia, NC

GFL Environmental - 007 - Brunswick

US 28422 Contact: DONALD CRAVEN dcraven@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)

F: (910)253-4179

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