

OIL ANALYSIS REPORT

Sample Rating Trend



Area (YA169061) 912038

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (10 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

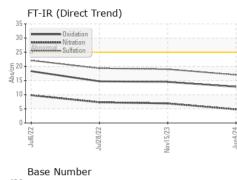
Fluid Condition

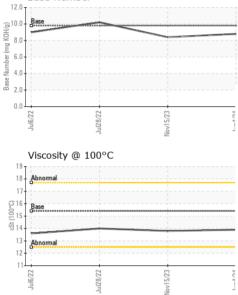
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0109524	GFL0094471	GFL0039482
Sample Date		Client Info		04 Jun 2024	15 Nov 2023	28 Jul 2022
Machine Age	hrs	Client Info		6950	0	0
Oil Age	hrs	Client Info		600	1200	0
Oil Changed		Client Info		Changed	Changed	N/A
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	2	6	14
Chromium	ppm	ASTM D5185m	>5	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	1
Aluminum	ppm	ASTM D5185m	>20	4	3	12
Lead	ppm	ASTM D5185m	>150	0	0	<1
Copper	ppm	ASTM D5185m	>90	<1	<1	1
Tin	ppm	ASTM D5185m	>5	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	4	14
Barium	ppm	ASTM D5185m	0	1	<1	0
Molybdenum	ppm	ASTM D5185m	60	61	56	58
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	1010	883	884	866
Calcium	ppm	ASTM D5185m	1070	1118	1077	1162
Phosphorus	ppm	ASTM D5185m	1150	892	958	939
Zinc	ppm	ASTM D5185m	1270	1157	1188	1175
Sulfur	ppm	ASTM D5185m	2060	3034	2895	3504
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	3	3	4
Sodium	ppm	ASTM D5185m		0	5	3
Potassium	ppm	ASTM D5185m	>20	2	8	30
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.1	0.3	0.2
Nitration	Abs/cm	*ASTM D7624		4.8	6.9	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.0	19.0	19.3
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.8	14.5	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	8.4	10.2



OIL ANALYSIS REPORT





	VISUAL									
				method	limit/base	currer			TH	story2
	White Metal		scalar	*Visual	NONE	NONE	Ν	IONE	NO	NE
	Yellow Metal		scalar	*Visual	NONE	NONE	Ν	IONE	NO	NE
	Precipitate		scalar	*Visual	NONE	NONE		IONE	NO	
	Silt		scalar	*Visual	NONE	NONE	Ν	IONE	NO	NE
	Debris		scalar	*Visual	NONE	NONE	Ν	IONE	NO	NE
	Sand/Dirt		scalar	*Visual	NONE	NONE		IONE	NO	NE
	Appearance		scalar	*Visual	NORML	NORML		IORML		RML
	Odor		scalar	*Visual	NORML	NORML		IORML	NO	RML
	Emulsified Wa	ater	scalar	*Visual	>0.2	NEG		IEG	NEC	
	Free Water		scalar	*Visual		NEG		IEG	NEC	
	FLUID PR	OPEF	RTIES	method	limit/base	currer	nt	history1	his	story2
	Visc @ 100°C		cSt	ASTM D445	15.4	13.9	1	3.8	14.(C
	GRAPHS									
	Ferrous Allo	ys								
	60									
	sessesses nickel	Im								
	50									
Nn nn	40 30									
5.e.	30									
	20									
	20 -									
	20 -	ul28/22		ov15/23	un4/24					
	20 10 0 22/90p	Jul28/22		Nov15/23	Jun4/24					
	Non-ferrous			Nov15/23	Juné24					
	Non-ferrous			Nov15/23	Jung24					
	Non-ferrous			Nov15/23	Jun4/24					
	Non-ferrous			Nov15/23	Jun4/24					
	Non-ferrous			Nov15/23	Junfr24 #					
	Non-ferrous			Nov15/23	Jun424					
	Non-ferrous			Nov15/23	Jun424					
	Non-ferrous			Nav15/23						
	Non-ferrous	Metals								
	Non-ferrous	Metals								
	Non-ferrous	Metals		Nov15/23	Jun4/24					
	Non-ferrous	Metals				Base Nun	nber			
	Non-ferrous	Metals			12.0		nber			
	Non-ferrous	Metals			424 424 424 424 424 424 424 424 424 424		nber			
	Non-ferrous	Metals			424 424 424 424 424 424 424 424 424 424	Base	nber			
	20 10 0 27 27 27 27 27 27 27 27 27 27	Metals			424 424 424 424 424 424 424 424 424 424	Base	nber			
	Non-ferrous	Metals			424 424 424 424 424 424 424 424 424 424	Base	nber			
	Non-ferrous	Metals			12.0 (0)H0X Bull action (0)H0X B	Base	nber			
	Non-ferrous	Metals			424 424 424 424 424 424 424 424 424 424	Base	nber			
	Non-ferrous	Metals		Nov15/23	12.0 (D)HO() Cull (D)HO() Cu	Base				
0.010	Non-ferrous Non-ferrous Non-ferrous Viscosity @	Metals			12.0 (b)h0y Bul 14 0.0 00h0y Bul 14 00h0y	Base	nber 2018/07		Nev15/23	

: 07 Jun 2024 - Wes Davis



Unique Number : 11063428 Test Package : FLEET Certificate L2367 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)

Diagnosed

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