

OIL ANALYSIS REPORT

Area (EQ2105) W Darian BPS (S/N 46250028)

Diesel Engine

Fluid PETRO CANADA DURON UHP 5W40 (12 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

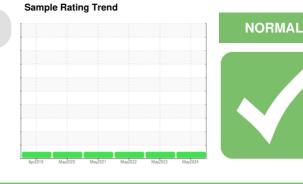
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

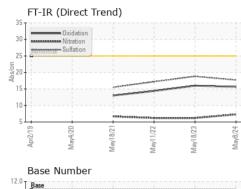
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

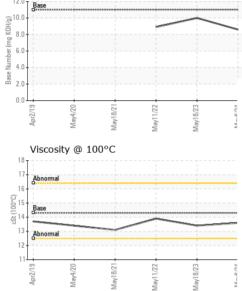


SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0934073	WC0810891	WC0696112		
Sample Date		Client Info		08 May 2024	18 May 2023	11 May 2022		
Machine Age	hrs	Client Info		695	667	642		
Oil Age	hrs	Client Info		53	44	0		
Oil Changed		Client Info		Not Changd	Not Changd	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATION	١	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		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	4	2	2		
Chromium	ppm	ASTM D5185m	>20	<1	<1	0		
Nickel	ppm	ASTM D5185m	>2	0	<1	0		
Titanium	ppm	ASTM D5185m	>2	19	0	18		
Silver	ppm	ASTM D5185m	>2	<1	0	0		
Aluminum	ppm	ASTM D5185m	>20	<1	2	<1		
Lead	ppm	ASTM D5185m	>40	<1	<1	0		
Copper	ppm	ASTM D5185m	>330	<1	5	<1		
Tin	ppm	ASTM D5185m	>15	<1	1	0		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		<1	<1	<1		
Cadmium	ppm	ASTM D5185m		<1	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	65	83	69	86		
Barium	ppm	ASTM D5185m	0	<1	0	0		
Molybdenum	ppm	ASTM D5185m	65	51	55	46		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	1160	1162	1070	1061		
Calcium	ppm	ASTM D5185m	820	1096	896	1036		
Phosphorus	ppm	ASTM D5185m	1160	1180	1022	1111		
Zinc	ppm	ASTM D5185m	1260	1465	1275	1255		
Sulfur	ppm	ASTM D5185m	3000	4675	4145	3250		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	4	7	3		
Sodium	ppm	ASTM D5185m		3	2	3		
Potassium	ppm	ASTM D5185m	>20	1	2	0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	0.1	0.1	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	7.3	6.2	6.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.7	18.8	17.2		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	16.0	14.4		
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	8.6	10.0	8.9		
7:56:15) Bev: 1					Submitted By: SCOTT TRAIL			



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
and the local diversion of the local diversio	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
C) 4-	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
May18/23 May8/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Ma	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual		NEG	NEG	NEG
	FLUID PROPERT		method	limit/base	current	history1 13.4	history2 13.9
	Visc @ 100°C GRAPHS	cSt	ASTM D445	14.3	13.0	13.4	13.9
	Iron (ppm)				Lead (ppm)		
0 2	250			10	Severe		
May18/23	150	1	1	8	0 - 9		
Ma	E 150 100 - Abnormal			e de	Abaranal		
	50 -		1	2	1		
		2		4		2	4 33
	Apr2/19 May4/20	May11/22	May18/23	May8/24	Apr2/19 May4/20	May18/21 May11/22	May18/23 May8/24
	- 2	Mar	Ma	\geq			Ma
	Aluminum (ppm)			5	Chromium (pp) 	
	40 - Severe			4	0 - Severe		
	20 Abnormal			е ³	0		
May18/23 1.1.2.2.1.1	B ₂₀ Abnormal			a 3 ط	0 - Abnormal		
Mar	10-			1	0 -		
		22	23	24	0	22	24
	Apr2/19 May4/20 May18/21	May11/22	May18/23	May8/24	Apr2/19 May4/20	May18/21 May11/22	May18/23 May8/24
	Copper (ppm)				Silicon (ppm)	- <	~
	400 Severe				⁰ - Severe		
	300 -			6			
	<u>특</u> 200 -			ud 4	0 Abnormal		
	100 -			2	Abnormal		
	Apr2/19 May4/20	May11/22	May18/23	May8/24	Apr2/19 . May4/20 .	May18/21 May11/22	May18/23 May8/24
			Ma	×		Ma	Ma
	Viscosity @ 100°C			12.	Base Number		
	Abnormal	1		(0) HOX HOX Du Jack Color HOX Du Jack Color HOX HOX HOX HOX HOX HOX HOX HOX HOX HOX	0		
	Abnormal Abnormal Abnormal		************	6 Bul) _ 6	0		
	경 Abnormal				ol		
	12			ase 2.	0		
		22	23 +	0.	0	22	24
	Apr2/19 May4/20 May18/21	May11/22	May18/23	May8/24	Apr2/19 May4/20	May18/21 May11/22	May18/23 May8/24
	- 2	2	2			e 2	2 -
Laboratory	: WearCheck USA - 50	1 Madiso	n Ave., Carv	. NC 27513	MONRO	Ε COUNTY WAT	ER AUTHORITY
Sample No.	: WC0934073	Recei	ved : 13	8 May 2024			9 DEWEY AVE
Lab Number	: 06176873	Teste	d :14	May 2024		RO	CHESTER, NY
Unique Number	: 11022926 : MOB 1 (Additional Te	Diagr		May 2024 - Se	ean Felton	Contact	US 14612 SCOTT TRAIL
	contact Customer Servi			9			ail@mcwa.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)

Certificate L2367

Submitted By: SCOTT TRAIL

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