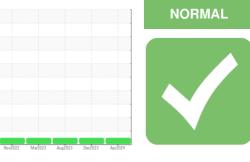


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

309955

Diesel Engine

Fluid PETRO CANADA DURON SHP 10W30 (--- 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.

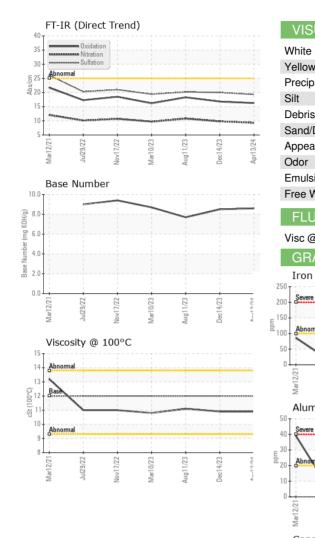
Fluid Condition

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

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2					
Sample Number		Client Info		PCA0123922	PCA0115249	PCA0103074					
Sample Date		Client Info		13 Apr 2024	14 Dec 2023	11 Aug 2023					
Machine Age	mls	Client Info		103745	93683	81293					
Oil Age	mls	Client Info		0	0	0					
Oil Changed		Client Info		Changed	Changed	Changed					
Sample Status				NORMAL	NORMAL	NORMAL					
CONTAMINAT	ION	method	limit/base	current	history1	history2					
Fuel		WC Method	>5	<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	>100	18	12	21					
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1					
Nickel	ppm	ASTM D5185m	>4	<1	0	0					
Titanium	ppm	ASTM D5185m		<1	0	0					
Silver	ppm	ASTM D5185m	>3	<1	<1	<1					
Aluminum	ppm	ASTM D5185m	>20	3	3	3					
Lead	ppm	ASTM D5185m	>40	2	0	2					
Copper	ppm	ASTM D5185m	>330	2	<1	3					
Tin	ppm	ASTM D5185m	>15	1	0	<1					
Vanadium	ppm	ASTM D5185m		<1	0	<1					
Cadmium	ppm	ASTM D5185m		<1	0	0					
ADDITIVES		method	limit/base	current	history1	history2					
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base	current 4	history1 14	history2 4					
	ppm ppm	ASTM D5185m									
Boron		ASTM D5185m	2	4	14	4					
Boron Barium	ppm	ASTM D5185m ASTM D5185m	2 0 50	4 0	14 0	4					
Boron Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	4 0 91	14 0 66	4 0 63					
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	4 0 91 1	14 0 66 <1	4 0 63 <1					
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	4 0 91 1 1271	14 0 66 <1 872	4 0 63 <1 966					
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	4 0 91 1 1271 1454	14 0 66 <1 872 1214	4 0 63 <1 966 1168					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995	4 0 91 1 1271 1454 1266	14 0 66 <1 872 1214 1084	4 0 63 <1 966 1168 1030					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180	4 0 91 1 1271 1454 1266 1701	14 0 66 <1 872 1214 1084 1277	4 0 63 <1 966 1168 1030 1285					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	4 0 91 1 1271 1454 1266 1701 4231	14 0 66 <1 872 1214 1084 1277 3119	4 0 63 <1 966 1168 1030 1285 3577					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600	4 0 91 1 1271 1454 1266 1701 4231 current	14 0 66 <1 872 1214 1084 1277 3119 history1	4 0 63 <1 966 1168 1030 1285 3577 history2					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	2 0 50 950 1050 995 1180 2600 Limit/base	4 0 91 1 1271 1454 1266 1701 4231 current 5	14 0 66 <1 872 1214 1084 1277 3119 history1 3	4 0 63 <1 966 1168 1030 1285 3577 history2 4					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	2 0 50 950 1050 995 1180 2600 Limit/base	4 0 91 1 1271 1454 1266 1701 4231 current 5 3	14 0 66 <1 872 1214 1084 1277 3119 history1 3 2	4 0 63 <1 966 1168 1030 1285 3577 history2 4 6					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm TS	ASTM D5185m ASTM D5185m	2 0 50 950 1050 995 1180 2600 limit/base >25	4 0 91 1 1271 1454 1266 1701 4231 <i>current</i> 5 3 4	14 0 66 <1 872 1214 1084 1277 3119 history1 3 2 2 2	4 0 63 <1 966 1168 1030 1285 3577 history2 4 6 6 6					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 Imit/base >25 >20 Imit/base >3	4 0 91 1 1271 1454 1266 1701 4231 <i>current</i> 5 3 4 <i>current</i>	14 0 66 <1 872 1214 1084 1277 3119 history1 3 2 2 2 history1	4 0 63 <1 966 1168 1030 1285 3577 history2 4 6 6 6 8					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 Imit/base >25 >20 Imit/base >3	4 0 91 1 1271 1454 1266 1701 4231 <i>current</i> 5 3 4 <i>current</i> 0.7	14 0 66 <1 872 1214 1084 1277 3119 history1 3 2 2 2 history1 0.8	4 0 63 <1 966 1168 1030 1285 3577 history2 4 6 6 6 history2 0.9					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 <i>imit/base</i> >25 >20 <i>imit/base</i> >3 >20	4 0 91 1 1271 1454 1266 1701 4231 current 5 3 4 current 0.7 9.3	14 0 66 <1 872 1214 1084 1277 3119 history1 3 2 2 history1 0.8 9.8	4 0 63 <1 966 1168 1030 1285 3577 history2 4 6 6 6 history2 0.9 10.8					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >25 imit/base >3 >20 >3 >20	4 0 91 1 1271 1454 1266 1701 4231 <i>current</i> 5 3 4 <i>current</i> 0.7 9.3 19.3	14 0 66 <1 872 1214 1084 1277 3119 history1 3 2 2 history1 0.8 9.8 20.0	4 0 63 <1 966 1168 1030 1285 3577 history2 4 6 6 6 history2 0.9 10.8 20.2					
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAC	ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	2 0 50 0 950 1050 995 1180 2600 imit/base >25 >20 imit/base >3 >20 >30	4 0 91 1 1271 1454 1266 1701 4231 <i>current</i> 5 3 4 <i>current</i> 0.7 9.3 19.3	14 0 66 <1 872 1214 1084 1277 3119 history1 3 2 2 history1 0.8 9.8 20.0 history1	4 0 63 <1 966 1168 1030 1285 3577 history2 4 6 6 6 history2 0.9 10.8 20.2 history2					



OIL ANALYSIS REPORT



nd)		VISUAL		method				ory1	histo	
	White Metal	scalar	*Visual	NONE	NONE	NON	Ē	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE	NON	E	NONE		
	Precipitate	scalar	*Visual	NONE	NONE	NON	E	NONE		
	Silt	scalar	*Visual	NONE	NONE	NON	Ξ	NONE		
	Debris	scalar	*Visual	NONE	NONE	NON	Ξ	NONE		
		Sand/Dirt	scalar	*Visual	NONE	NONE	NON		NONE	
Mar10/23 Aug11/23 Dec14/23 Apr13/24		Appearance	scalar	*Visual	NORML	NORML	NOR		NORM	
Mai Aug Apr	000	scalar	*Visual	NORML	NORML	NOR	ИL	NORM	IL	
	Emulsified Wate		*Visual	>0.2	NEG	NEG		NEG		
	1	Free Water	scalar	*Visual		NEG	NEG		NEG	
\sim		FLUID PRO		method	limit/base	current	hist	ory1	histor	ry2
		Visc @ 100°C	cSt	ASTM D445	12.00	10.9	10.9		11.1	
		GRAPHS								
		Iron (ppm)			1(Lead (ppm))			
23	23	Severe				Severe				
Mar10/23 Aug11/23	Dec14/23	200				io -				
		150 100 - Abnormal			udd	0 Abnormal				
		50				!0 -				
			23-	723-	24	22	722	23	23	24
		Mar12/21 Jul29/22	Mar10/23	Aug11/23 . Dec14/23 .	Apr13/24	Mar1 2/21 Jul29/22	Nov17/22 Mar10/23	Aug11/23	Dec14/23	Apr13/24
	Aluminum (pp	Aluminum (ppm)								
	50 Severe				Severe					
		40								
0/23 -	4/23	Abnormal			mdd	Abnormal		1		
Mar10/23 Aug11/23	Dec14/23	Abnotrmal				0 -				
			33		+		2			4
		Mar1 2/2 1 Jui29/22	Mar10/23	Aug11/23	Apr13/24	Mar1 2/21 Jul2 9/22	Nov17/22 Mar10/23	Aug11/23	Dec14/23	Apr13/24
		Copper (ppm)		A D	4	Silicon (ppn		A		4
		400 Severe	100				⁸⁰ Severe			
		300 -				i0 -				
		<u>الم</u>			E.	0				
		100				Abnormal				
										_
			Mar10/23	Aug11/23 Dec14/23	Apr13/24	Mar12/21	Nov17/22	Aug11/23	Dec14/23	Apr13/24
				Aug	Apr			Aug	Dec	Apr
		Viscosity @ 10	0°C		Base Numb	Base Number				
		14 Abnormal			(b)HOX B(b)HOX B(b) B(c) B(c) B(c) B(c) B(c) B(c) B(c) B(c	.0 -				_
		12- 12- 12-			6 g	.0				
						.0				
		¹⁰ Abnormal			Base B	.0 -				
		22 521+8	/23	/23-	724		122+	/23	/23 -	/24
		Mar12/21 Jul29/22	Mar1 0/23	Aug11/23. Dec14/23	Apr13/24 -	Mar12/21 Jul29/22	Nov17/22 Mar10/23	Aug11/23	Dec14/23	Apr13/24
Certificate L2367 Test Package	-	Rece Teste Diagr al Tests: TBN	ived : 23 ed : 24 nosed : 25 I)	HA athan Hester C		ER TRUCK LEASING #119 39 INDUSTRIAL AVE IASBROUCK HEIGHTS, NJ US 07604 Contact: MIKE LONGETTE gette@millertransgroup.com				

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Contact/Location: MIKE LONGETTE - MILRUT

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