

(LHQB18) Walgreens - Yard Horse [Walgreens - Yard Horse] 136A82000

Diesel Engine

PETRO CANADA DURON SHP 10W30 (5 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

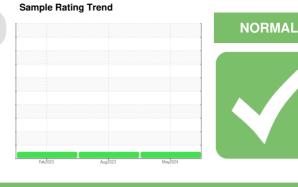
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

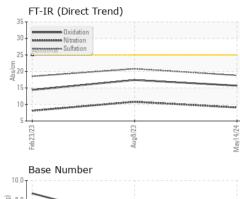
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

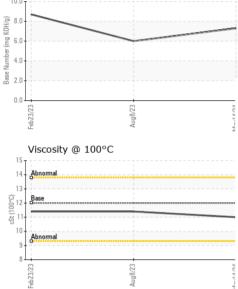


SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0107544	PCA0094398	PCA0092033
Sample Date		Client Info		14 May 2024	08 Aug 2023	23 Feb 2023
Machine Age	hrs	Client Info		4660	3795	3258
Oil Age	hrs	Client Info		4660	3795	3258
Oil Changed		Client Info		Changed	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	<1.0 NEG	NEG	NEG
		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Welliou		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	27	10
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	3	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	5	4	3
Lead	ppm	ASTM D5185m	>40	<1	<1	0
Copper	ppm	ASTM D5185m	>330	3	2	1
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
	1.					
ADDITIVES	le le con	method	limit/base	current	history1	history2
	ppm		limit/base			history2 8
ADDITIVES		method		current	history1	
ADDITIVES Boron	ppm	method ASTM D5185m	2	current 2	history1 3	8
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	2 0	current 2 0	history1 3 0	8 0
ADDITIVES Boron Barium Molybdenum	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50	current 2 0 55	history1 3 0 60	8 0 55
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0	current 2 0 55 <1	history1 3 0 60 <1	8 0 55 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950	current 2 0 55 <1 845	history1 3 0 60 <1 954	8 0 55 <1 848
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050	current 2 0 55 <1 845 1043	history1 3 0 60 <1 954 1131	8 0 55 <1 848 1058
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995	current 2 0 55 <1 845 1043 1003	history1 3 0 60 <1 954 1131 941	8 0 55 <1 848 1058 1059
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180	current 2 0 55 <1 845 1043 1003 1177	history1 3 0 60 <1 954 1131 941 1215	8 0 55 <1 848 1058 1059 1206
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	Current 2 0 55 <1 845 1043 1003 1177 3277	history1 3 0 60 <1 954 1131 941 1215 3510	8 0 55 <1 848 1058 1059 1206 2897
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	current 2 0 555 <1 845 1043 1003 1177 3277 current	history1 3 0 60 <1 954 1131 941 1215 3510 history1	8 0 55 <1 848 1058 1059 1206 2897 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Chosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600	current 2 0 555 <1 845 1043 1003 1177 3277 current 5	history1 3 0 60 <1 954 1131 941 1215 3510 history1 7	8 0 55 <1 848 1058 1059 1206 2897 history2 5
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 limit/base >25	current 2 0 55 <1 845 1043 1003 1177 3277 current 5 3	history1 3 0 60 <1 954 1131 941 1215 3510 history1 7 2	8 0 55 <1 848 1058 1059 1206 2897 history2 5 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 Imit/base >25 >20	current 2 0 55 <1 845 1043 1003 1177 3277 current 5 3 6 current	history1 3 0 60 <1 954 1131 941 1215 3510 history1 7 2 3 history1	8 0 55 <1 848 1058 1059 1206 2897 history2 5 0 2 2 history2
ADDITIVES 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	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >25 >20 imit/base >3	current 2 0 55 <1 845 1043 1003 1177 3277 current 5 3 6 current 0.5	history1 3 0 60 <1 954 1131 941 1215 3510 history1 7 2 3 history1 0.6	8 0 55 <1 848 1058 1059 1206 2897 history2 5 0 2 2 history2 0.3
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS	method ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 Imit/base >25 >20	current 2 0 55 <1 845 1043 1003 1177 3277 current 5 3 6 current	history1 3 0 60 <1 954 1131 941 1215 3510 history1 7 2 3 history1	8 0 55 <1 848 1058 1059 1206 2897 history2 5 0 2 2 history2
ADDITIVES 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	method ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >25 20 imit/base >3 >20 >30	current 2 0 55 <1 845 1043 1003 1177 3277 current 5 3 6 current 0.5 9.1	history1 3 0 60 <1 954 1131 941 1215 3510 history1 7 2 3 history1 0.6 10.8	8 0 55 <1 848 1058 1059 1206 2897 history2 5 0 2 history2 0.3 8.1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRAE	ppm ppm ppm ppm ppm ppm ppm ppm ppm TS ppm ppm ppm	method ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415 method	2 0 50 950 1050 995 1180 2600 imit/base >25 20 imit/base >3 >20 30	current 2 0 55 <1 845 1043 1003 1177 3277 current 5 3 6 current 0.5 9.1 18.8 current	history1 3 0 60 <1 954 1131 941 1215 3510 history1 7 2 3 history1 0.6 10.8 20.8 history1	8 0 55 <1 848 1058 1059 1206 2897 history2 5 0 2 5 0 2 2 history2 0.3 8.1 18.5 history2
ADDITIVES 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	method ASTM D5185m ASTM D5185m	2 0 50 0 950 1050 995 1180 2600 imit/base >25 20 imit/base >3 >20 >30	current 2 0 55 <1 845 1043 1003 1177 3277 current 5 3 6 current 0.5 9.1 18.8	history1 3 0 60 <1 954 1131 941 1215 3510 history1 7 2 3 history1 0.6 10.8 20.8	8 0 55 <1 848 1058 1059 1206 2897 history2 5 0 2 history2 0.3 8.1 18.5



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 other discount of the	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
May14/24	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
May	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	RTIES	method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.4	11.4
	GRAPHS						
	Ferrous Alloys						
5	25 - iron	\wedge					
1 L	nickel						
-	20						
	u 4 15						
	10						
	5						
	53 23	3/23 -		4/24			
	Feb23/23	Aug8/23		May14/24			
	Non-ferrous Meta	ls		_			
ACA have	10 copper						
hill.	8 -						
	everyone (11)						
	6- E						
	4						
	2						
			and a standard standard stands				
	Feb23/23	Aug8/23		May14/24			
				Ma			
	Viscosity @ 100°C				Base Numbe	r	
	14 - Abnormal						
	13	-					
				HON I	.0		
	() 12 8888 811 83			(b/HOX) 60 888 Number 10 888 Number 10 84 85 84 85 84 85 85 84 85 85 85 85 85 85 85 85 85 85 85 85 85	.0-		
	1			qunn o			
	10 Abnormal			asea 2	.0		
	9 -				.0		
	84	5					
	Feb 23/23	Aug8/23		May14/24	Feb 23/23	Aug8/23	May14/24
	يت. ت	4		W	ц.	4	Mi
Laboratory	: WearCheck USA - 50	1 Madiso	on Ave., Carv	. NC 27513	Transe	rvice - Shop 1367 -	Berkelev-Juniter
Sample No.	: PCA0107544	Rece		May 2024			algreens Drive
Lab Number	: 06194755	Teste	ed : 30) May 2024			Jupiter, FL
Unique Number		Diagi	nosed : 30	May 2024 - \	Nes Davis	Contrat. M	US 33478
Test Package	: FLEEI contact Customer Serv	ice at 1-	300-237-136	9			anny Gonzalez ranservice.com
	are outside of the ISO 1						

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)

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Certificate L2367

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