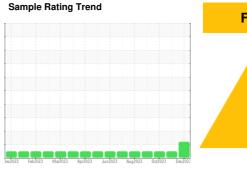


OIL ANALYSIS REPORT

(TEMP) Walgreens - Yard Horse [Walgreens - Yard Horse] 136A81261

Diesel Engine

PETRO CANADA DURON SHP 15W40 (11 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Light fuel dilution occurring.

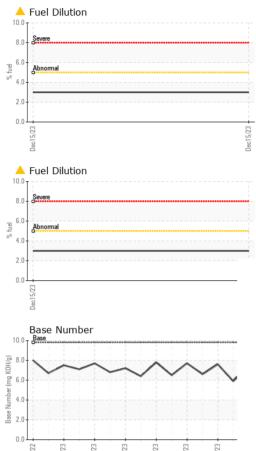
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

ეოლ2022 Fab2023 Mar2023 App2023 Jun2023 App2023 Ove2023 Dev2025								
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		PCA0112849	PCA0112892	PCA0103790		
Sample Date		Client Info		15 Dec 2023	13 Nov 2023	11 Oct 2023		
Machine Age h	nrs	Client Info		7910	7624	7359		
Oil Age h	nrs	Client Info		286	531	266		
Oil Changed		Client Info		Not Changd	Changed	Not Changd		
Sample Status				ABNORMAL	NORMAL	NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2		
Water		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
Iron p	opm	ASTM D5185m	>100	10	23	9		
Chromium p	opm	ASTM D5185m	>20	<1	1	<1		
Nickel p	pm	ASTM D5185m	>4	<1	2	2		
	ppm	ASTM D5185m		0	0	0		
Silver p	pm	ASTM D5185m	>3	0	0	0		
	pm	ASTM D5185m	>20	<1	1	1		
	pm	ASTM D5185m	>40	0	0	0		
-	pm	ASTM D5185m	>330	<1	0	<1		
	pm		>15	0	<1	<1		
	ppm	ASTM D5185m		<1	0	0		
	opm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron p	opm	ASTM D5185m	0	0	2	0		
Barium p	ppm	ASTM D5185m	0	0	0	0		
Molybdenum p	pm	ASTM D5185m	60	54	57	59		
Manganese p	210 100							
	pm	ASTM D5185m	0	0	<1	0		
Magnesium p	opm	ASTM D5185m ASTM D5185m	1010	0 921	<1 937	0 977		
		ASTM D5185m				-		
Calcium p	opm	ASTM D5185m	1010	921	937	977		
Calcium p Phosphorus p	opm opm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070	921 966	937 1015	977 1047		
Calcium p Phosphorus p Zinc p	opm opm	ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150	921 966 1011	937 1015 970	977 1047 1051		
Calcium p Phosphorus p Zinc p	opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270	921 966 1011 1193	937 1015 970 1221	977 1047 1051 1298		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS	opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060	921 966 1011 1193 2985	937 1015 970 1221 2919	977 1047 1051 1298 3243		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS Silicon p	opm opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method	1010 1070 1150 1270 2060 limit/base	921 966 1011 1193 2985 current	937 1015 970 1221 2919 history1	977 1047 1051 1298 3243 history2		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS Silicon p Sodium p	opm opm opm opm opm opm opm opm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	1010 1070 1150 1270 2060 limit/base	921 966 1011 1193 2985 current	937 1015 970 1221 2919 history1	977 1047 1051 1298 3243 history2		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS Silicon p Sodium p Potassium p	oppm oppm oppm oppm oppm oppm oppm oppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25	921 966 1011 1193 2985 current 2	937 1015 970 1221 2919 history1 2	977 1047 1051 1298 3243 history2 2		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS Silicon p Sodium p Potassium p	opm	ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20	921 966 1011 1193 2985 current 2 1	937 1015 970 1221 2919 history1 2 0	977 1047 1051 1298 3243 history2 2 1		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS Silicon p Sodium p Potassium p Fuel 9	opm	ASTM D5185m	1010 1070 1150 1270 2060 limit/base >25 >20 >5	921 966 1011 1193 2985 current 2 1 0 3.0	937 1015 970 1221 2919 history1 2 0 0	977 1047 1051 1298 3243 history2 2 1 <1 <1.0		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS Silicon p Sodium p Potassium p Fuel 9 INFRA-RED Soot % 9	opm	ASTM D5185m	1010 1070 1150 1270 2060 Iimit/base >25 >20 >5	921 966 1011 1193 2985 current 2 1 0 ▲ 3.0	937 1015 970 1221 2919 history1 2 0 0 <1.0	977 1047 1051 1298 3243 history2 2 1 <1 <1.0 history2		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS Silicon p Sodium p Potassium p Fuel 9 INFRA-RED Soot % 9 Nitration A	ppm	ASTM D5185m ASTM D3524 method *ASTM D7844	1010 1070 1150 1270 2060 Iimit/base >25 >20 >5	921 966 1011 1193 2985 current 2 1 0 ▲ 3.0 current 0.7	937 1015 970 1221 2919 history1 2 0 0 <1.0 history1	977 1047 1051 1298 3243 history2 2 1 <1 <1.0 history2 0.8		
Calcium p Phosphorus p Zinc p Sulfur p CONTAMINANTS Silicon p Sodium p Potassium p Fuel 9 INFRA-RED Soot % 9 Nitration A	ppm	ASTM D5185m ASTM D7824 method *ASTM D7844 *ASTM D7624	1010 1070 1150 1270 2060 limit/base >25 >20 >5 limit/base	921 966 1011 1193 2985	937 1015 970 1221 2919 history1 2 0 <1.0 history1 1.4 10.9	977 1047 1051 1298 3243 history2 2 1 <1 <1.0 history2 0.8 8.0		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation A FLUID DEGRADA	ppm	ASTM D5185m ASTM D3524 method *ASTM D7624 *ASTM D7624 *ASTM D7415 method	1010 1070 1150 1270 2060 limit/base >25 >20 >5 limit/base >3 >20 >30 limit/base	921 966 1011 1193 2985	937 1015 970 1221 2919 history1 2 0 0 <1.0 history1 1.4 10.9 25.4	977 1047 1051 1298 3243 history2 2 1 <1 <1.0 history2 0.8 8.0 21.9 history2		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Soot % Nitration Sulfation A FLUID DEGRADA Oxidation Phosphorus p PA	ppm	ASTM D5185m ASTM D3524 method *ASTM D7844 *ASTM D7624 *ASTM D7415	1010 1070 1150 1270 2060 limit/base >25 >20 >5 limit/base >3 >20 >3	921 966 1011 1193 2985	937 1015 970 1221 2919 history1 2 0 <1.0 history1 1.4 10.9 25.4 history1	977 1047 1051 1298 3243 history2 2 1 <1 <1.0 history2 0.8 8.0 21.9		



OIL ANALYSIS REPORT



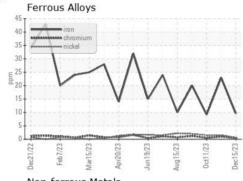
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	RTIFS	method	limit/base	current	historv1	historv2

11.6

13.9

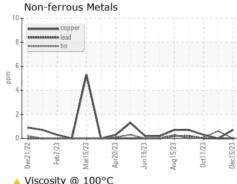
14.2

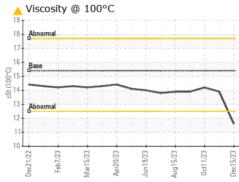
Visc @ 100°C **GRAPHS**

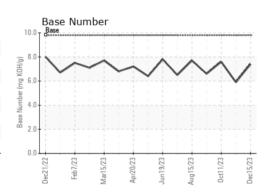


cSt

ASTM D445 15.4









Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06042807

: PCA0112849 : 10803415

Recieved : 22 Dec 2023 Diagnosed

: 27 Dec 2023 Diagnostician : Wes Davis

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel) 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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