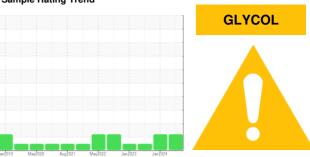


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **395378**

Diesel Engine

PETRO CANADA DURON SHP 10W30 (18 QTS)

DIAGNOSIS

Recommendation

Check for low coolant level. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

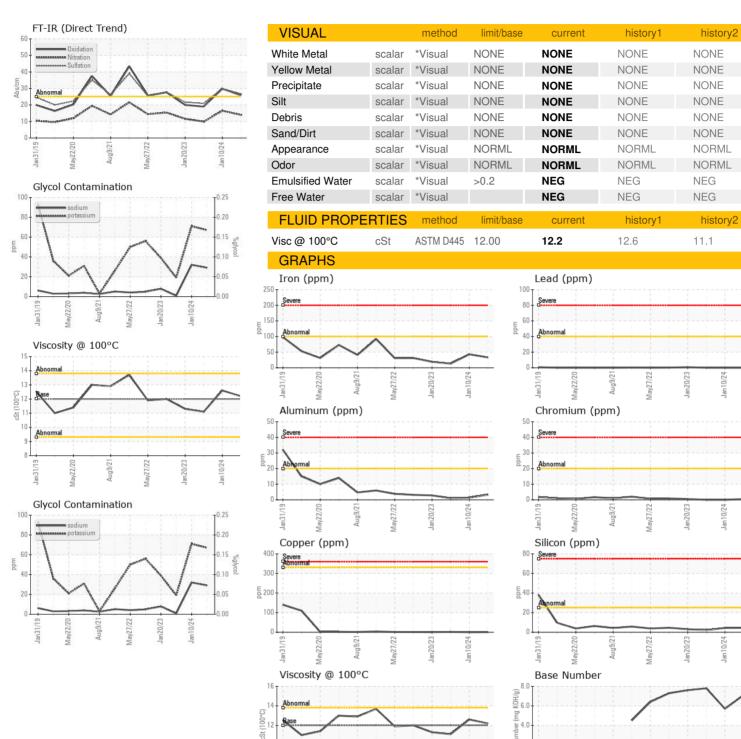
Fluid Condition

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

TS)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121028	PCA0113583	PCA0097795
Sample Date		Client Info		10 May 2024	10 Jan 2024	12 May 2023
Machine Age	mls	Client Info		0	221772	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	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
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	33	43	13
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	1	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	<1	2
Γin	ppm	ASTM D5185m	>15	0	0	<1
/anadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	11	27
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	50	76	88	74
Manganese	ppm	ASTM D5185m	^			
Magnesium		//OTIVI DOTOOIII	0	<1	0	<1
0	ppm	ASTM D5185m	950	<1 1245	0 1338	<1 812
•	ppm ppm					
Calcium		ASTM D5185m	950	1245	1338	812
Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	950 1050	1245 1418	1338 1747	812 1192
Calcium Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995	1245 1418 1236	1338 1747 1404	812 1192 1014
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180	1245 1418 1236 1592	1338 1747 1404 1818	812 1192 1014 1184
Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	950 1050 995 1180 2600	1245 1418 1236 1592 3927	1338 1747 1404 1818 4247	812 1192 1014 1184 3070
Calcium Phosphorus Zinc Gulfur CONTAMINAN Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	950 1050 995 1180 2600 limit/base	1245 1418 1236 1592 3927 current	1338 1747 1404 1818 4247 history1	812 1192 1014 1184 3070 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	950 1050 995 1180 2600 limit/base	1245 1418 1236 1592 3927 current	1338 1747 1404 1818 4247 history1	812 1192 1014 1184 3070 history2
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	950 1050 995 1180 2600 limit/base >25	1245 1418 1236 1592 3927 current 4 29	1338 1747 1404 1818 4247 history1 4 32	812 1192 1014 1184 3070 history2 2 <1
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m	950 1050 995 1180 2600 limit/base >25	1245 1418 1236 1592 3927	1338 1747 1404 1818 4247 history1 4 32	812 1192 1014 1184 3070 history2 2 <1
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	950 1050 995 1180 2600 limit/base >25	1245 1418 1236 1592 3927	1338 1747 1404 1818 4247 history1 4 32 1 71	812 1192 1014 1184 3070 history2 2 <1 19 NEG
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ITS ppm ppm ppm	ASTM D5185m *ASTM D5185m *ASTM D2982 method	950 1050 995 1180 2600 limit/base >25 >20	1245 1418 1236 1592 3927 current 4 29 ▲ 67 NEG	1338 1747 1404 1818 4247 history1 4 32 11 NEG	812 1192 1014 1184 3070 history2 2 <1 19 NEG
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm Ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D2982 method *ASTM D7844	950 1050 995 1180 2600 limit/base >25 >20	1245 1418 1236 1592 3927 current 4 29 67 NEG current 0.5	1338 1747 1404 1818 4247 history1 4 32 71 NEG history1	812 1192 1014 1184 3070 history2 2 <1 19 NEG history2 0.3
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm	ASTM D5185m *ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624 *ASTM D76145	950 1050 995 1180 2600 limit/base >25 >20	1245 1418 1236 1592 3927 current 4 29 67 NEG current 0.5 14.0	1338 1747 1404 1818 4247 history1 4 32 ▲ 71 NEG history1 0.6 16.5	812 1192 1014 1184 3070 history2 2 <1 19 NEG history2 0.3 9.9
Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m *ASTM D5185m *ASTM D2982 method *ASTM D7844 *ASTM D7624 *ASTM D76145	950 1050 995 1180 2600 limit/base >25 >20 limit/base >3 >20 >30	1245 1418 1236 1592 3927	1338 1747 1404 1818 4247 history1 4 32 ▲ 71 NEG history1 0.6 16.5 29.8	812 1192 1014 1184 3070 history2 2 <1 19 NEG history2 0.3 9.9 20.9



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06202444

: PCA0121028 Unique Number : 11069905

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024

Tested : 11 Jun 2024 Diagnosed : 11 Jun 2024 - Sean Felton

Jan 10/24

Test Package : MOB 1 (Additional Tests: Glycol, TBN) 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)

MILLER TRUCK LEASING #114

63 REPAUPO STATION ROAD LOGAN TOWNSHIP, NJ

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Contact/Location: ED DAVIS - MILLOG