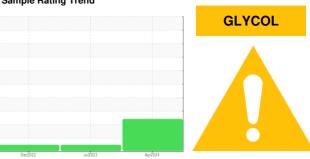


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 38

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GA

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

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

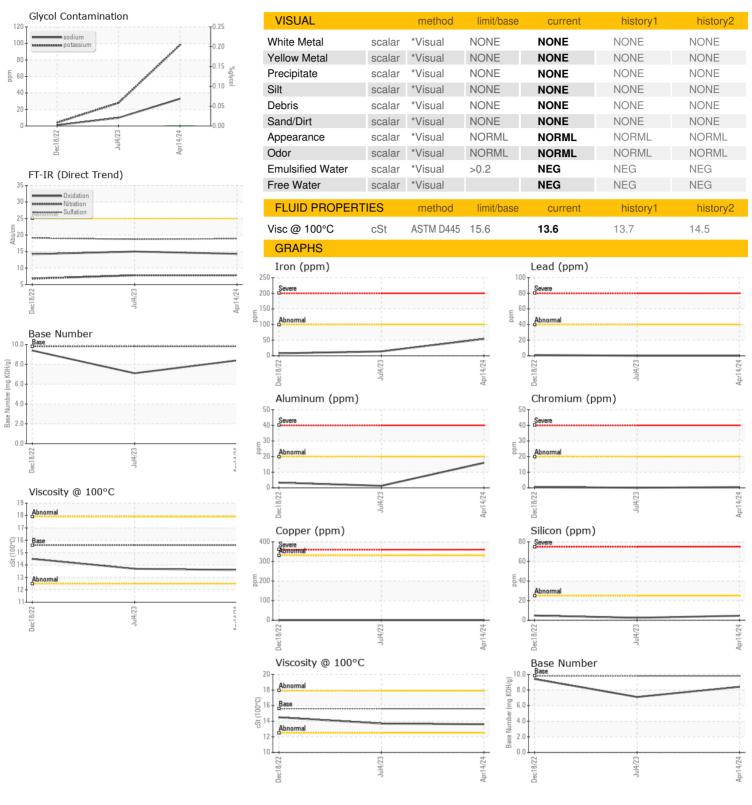
Fluid Condition

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.

AL)		Dec	Ž022	Jul2023 Apr20	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0850980	WC0740601	WC0740625
Sample Date		Client Info		14 Apr 2024	04 Jul 2023	18 Dec 2022
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	V	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 METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	54	14	8
Chromium	ppm	ASTM D5185m	>20	<1	0	<1
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	16	1	3
Lead	ppm	ASTM D5185m	>40	0	0	1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		32	34	32
Barium		ASTM D5185m		0	0	0
	ppm	AS TIVI DS TOSTII				O
Molybdenum	ppm	ASTM D5185m		89	75	67
Molybdenum	ppm	ASTM D5185m		89	75	67
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m		89 <1	75 0	67 <1
Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		89 <1 608	75 0 380	67 <1 645
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		89 <1 608 1711	75 0 380 1662	67 <1 645 1520
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		89 <1 608 1711 1197	75 0 380 1662 975	67 <1 645 1520 1056
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	limit/base	89 <1 608 1711 1197 1361	75 0 380 1662 975 1159	67 <1 645 1520 1056 1292
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	limit/base >25	89 <1 608 1711 1197 1361 4238	75 0 380 1662 975 1159 4055	67 <1 645 1520 1056 1292 3936
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		89 <1 608 1711 1197 1361 4238 current	75 0 380 1662 975 1159 4055 history1	67 <1 645 1520 1056 1292 3936 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m		89 <1 608 1711 1197 1361 4238 current 5	75 0 380 1662 975 1159 4055 history1 2	67 <1 645 1520 1056 1292 3936 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25	89 <1 608 1711 1197 1361 4238 current 5	75 0 380 1662 975 1159 4055 history1 2	67 <1 645 1520 1056 1292 3936 history2 5
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>25	89 <1 608 1711 1197 1361 4238 current 5 33 98	75 0 380 1662 975 1159 4055 history1 2 10 28	67 <1 645 1520 1056 1292 3936 history2 5 1
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	89 <1 608 1711 1197 1361 4238 current 5 33 98 0.0	75 0 380 1662 975 1159 4055 history1 2 10 28 NEG	67 <1 645 1520 1056 1292 3936 history2 5 1 4 NEG
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D2982 *Method	>25 >20 limit/base >3	89 <1 608 1711 1197 1361 4238	75 0 380 1662 975 1159 4055 history1 2 10 28 NEG history1	67 <1 645 1520 1056 1292 3936 history2 5 1 4 NEG history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844	>25 >20 limit/base >3	89 <1 608 1711 1197 1361 4238	75 0 380 1662 975 1159 4055 history1 2 10 28 NEG history1 0.4	67 <1 645 1520 1056 1292 3936 history2 5 1 4 NEG history2 0.2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D7844 *ASTM D7844	>25 >20 limit/base >3 >20	89 <1 608 1711 1197 1361 4238	75 0 380 1662 975 1159 4055 history1 2 10 28 NEG history1 0.4 7.8	67 <1 645 1520 1056 1292 3936 history2 5 1 4 NEG history2 0.2 6.8
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Glycol INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D5185m *ASTM D2982 *ASTM D7844 *ASTM D7624 *ASTM D76145	>25 >20 limit/base >3 >20 >30	89 <1 608 1711 1197 1361 4238	75 0 380 1662 975 1159 4055 history1 2 10 28 NEG history1 0.4 7.8 18.7	67 <1 645 1520 1056 1292 3936 history2 5 1 4 NEG history2 0.2 6.8 19.1



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0850980

Lab Number : 06149327 Unique Number : 10979405

Received **Tested**

: 17 Apr 2024 Diagnosed : 17 Apr 2024 - Don Baldridge

: 15 Apr 2024

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)

ANSON CO SCHOOL BUS GARAGE

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Contact: MATT POWELL powell.berkeley@anson.k12.nc.us

T: F: