

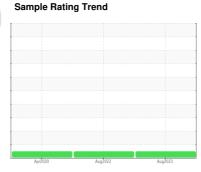
OIL ANALYSIS REPORT

KEMP QUARRIES / PRYOR STONE Machine Id LFT013

Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Changed fluid and filters)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

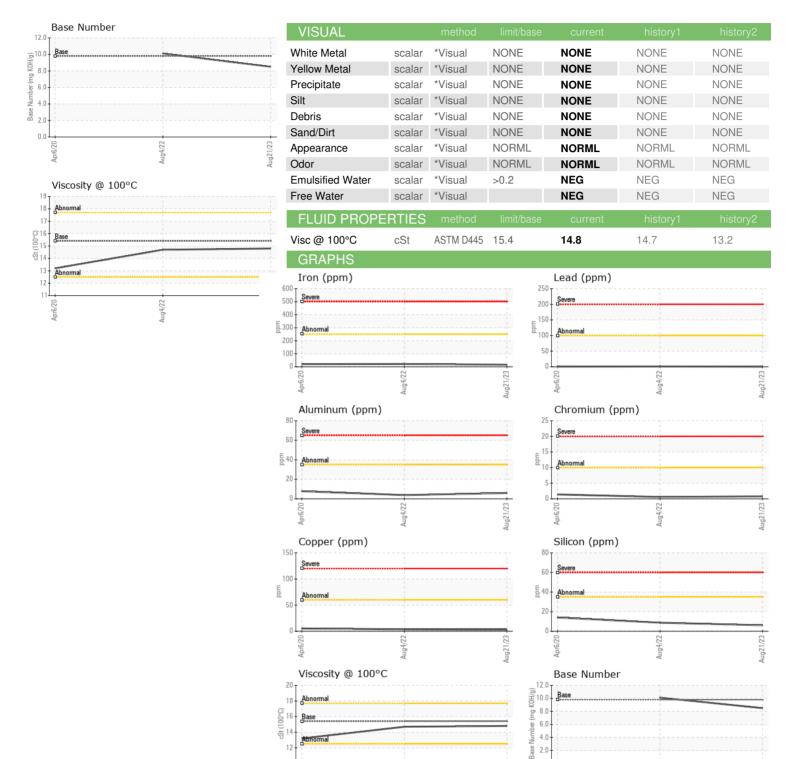
Fluid Condition

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

April 200 Aug 2022 Aug 2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0086453	PCA0062422	PCA0010896
Sample Date		Client Info		21 Aug 2023	04 Aug 2022	06 Apr 2020
Machine Age	hrs	Client Info		3832	2970	2970
Oil Age	hrs	Client Info		3832	3520	435
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>250	16	21	20
Chromium	ppm	ASTM D5185m	>10	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	2
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>35	6	4	8
Lead	ppm	ASTM D5185m	>100	0	<1	<1
Copper	ppm	ASTM D5185m	>60	3	4	5
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	2	9	72
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	68	63	49
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	1062	983	521
Calcium	ppm	ASTM D5185m	1070	1184	1109	1837
Phosphorus	ppm	ASTM D5185m	1150	1154	1102	796
Zinc	ppm	ASTM D5185m	1270	1411	1289	959
Sulfur	ppm	ASTM D5185m ASTM D5185m	1270 2060			
	ppm			1411	1289	959
Sulfur CONTAMINAN	ppm	ASTM D5185m	2060	1411 4099	1289 3457	959 2353
Sulfur CONTAMINAN Silicon	ppm TS	ASTM D5185m method	2060 limit/base	1411 4099 current	1289 3457 history1	959 2353 history2
Sulfur CONTAMINAN Silicon Sodium	ppm TS ppm	ASTM D5185m method ASTM D5185m	2060 limit/base >35	1411 4099 current	1289 3457 history1	959 2353 history2
Sulfur CONTAMINAN' Silicon Sodium	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	2060 limit/base >35	1411 4099 current 6 1	1289 3457 history1 9 4	959 2353 history2 14 5
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm TS ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	2060 limit/base >35 >20	1411 4099 current 6 1	1289 3457 history1 9 4 <1	959 2353 history2 14 5
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	2060 limit/base >35 >20 limit/base >3	1411 4099 current 6 1 0	1289 3457 history1 9 4 <1 history1	959 2353 history2 14 5 1 history2
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm TS ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	2060 limit/base >35 >20 limit/base >3 >20 solution So	1411 4099 current 6 1 0 current 0.2	1289 3457 history1 9 4 <1 history1	959 2353 history2 14 5 1 history2 0.3
Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm TS ppm ppm ppm ppm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	2060 limit/base >35 >20 limit/base >3 >20 limit/base	1411 4099 current 6 1 0 current 0.2 7.4	1289 3457 history1 9 4 <1 history1 0.2 7.7	959 2353 history2 14 5 1 history2 0.3 8.8
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm TS ppm ppm ppm ppm Abs/.1mm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	2060 limit/base >35 >20 limit/base >3 >20 solution >3 >20 >30	1411 4099 current 6 1 0 current 0.2 7.4 17.7	1289 3457 history1 9 4 <1 history1 0.2 7.7 19.1	959 2353 history2 14 5 1 history2 0.3 8.8 21.1



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **Unique Number**

: PCA0086453 : 05935205 : 10620476

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Received : 25 Aug 2023 Diagnosed

: 28 Aug 2023 Diagnostician : Don Baldridge Test Package : MOB 1 (Additional Tests: TBN)

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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)

Kemp Quarries - Pryor Stone - Pryor

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