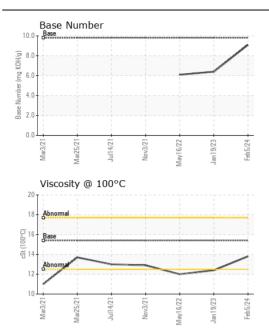
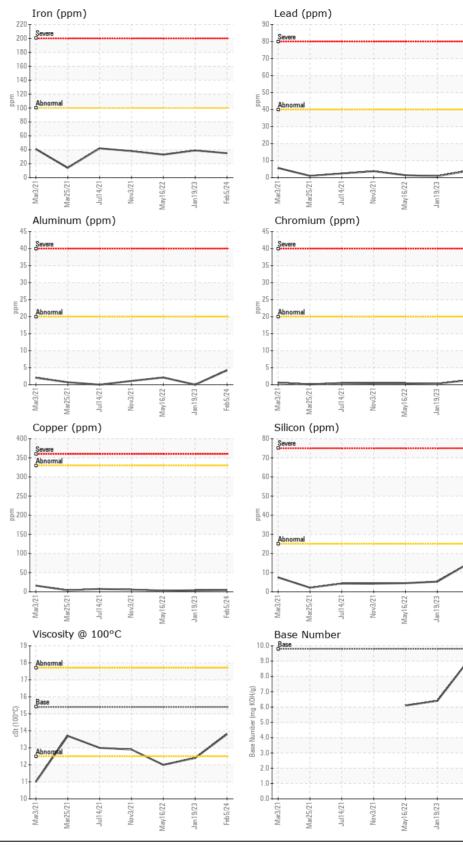


WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Area **KEMP QUARRIES / BCS - GRAVETTE [65250] OHT111** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA0069801	PCA0062014	PCA0037609
Resample at the next service interval to monitor. (Customer Sample	Sample Date		Client Info		05 Feb 2024	19 Jan 2023	16 May 2022
Comment: Pm3)	Machine Age	hrs	Client Info		24208	20812	20379
	Oil Age	hrs	Client Info		3396	20812	20379
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ATTENTION	ATTENTION
WEAR	Iron	ppm	ASTM D5185m		35	39	33
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	1	<1	0
	Titanium	ppm	ASTM D5185m	0	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		4	0	2
	Lead	ppm	ASTM D5185m ASTM D5185m	>40	4 5	<1 4	1
	Copper Tin	ppm	ASTM D5185m		5 <1	4 <1	<1
	Vanadium	ppm ppm	ASTM D5185m	>15	<1 <1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Jouran	Violal			NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	15	5	4
	Potassium	ppm	ASTM D5185m	>20	3	2	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	3 .0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624		9.5	9.0	9.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.5	18.8	18.5
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	3
	Boron		ASTM D5185m	0	6	5	9
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	60	67	48	44
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	1010	1014	713	664
	Calcium	ppm	ASTM D5185m		1187	923	1019
	Phosphorus	ppm	ASTM D5185m	1150	1135	884	893
	Zinc	ppm	ASTM D5185m	1270	1329	1060	1107
	Sulfur	ppm	ASTM D5185m		3155	2415	2744
	Oxidation	Abs/.1mm	*ASTM D7414		18.2	16.1	15.3
	Base Number (BN)	mg KOH/g			9.1	6.4	6.1
	Visc @ 100°C	cSt	ASTM D445	15.4	13.8	12.4	12.0





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Laboratory Kemp Quarries - Benton County Stone - Gravette : PCA0069801 Received Sample No. : 26 Feb 2024 15100 N Hwy 59 Lab Number : 06100659 : 27 Feb 2024 Tested Sulphur Springs, AR Unique Number : 10898889 : 28 Feb 2024 - Sean Felton US 72768 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: GRAVETTE NOTIFICATIONS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gravette@bentoncountystone.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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