WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

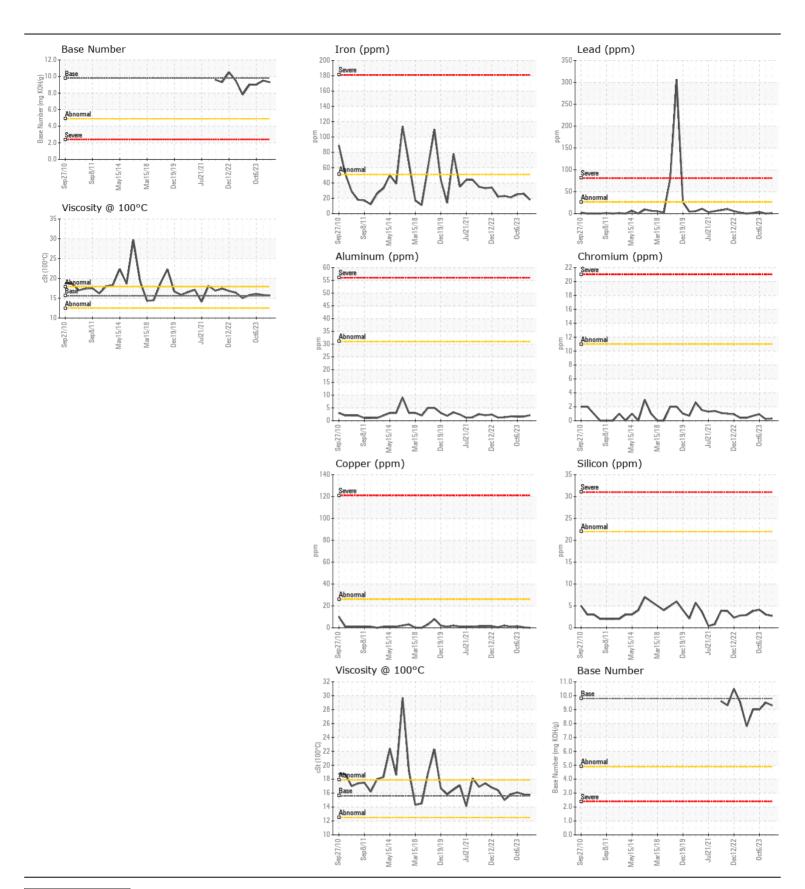
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KEMP QUARRIES / KEMP STONE - FAIRLAND [68234]

WP023

Component

PETRO CANADA DURON HP 15W40 (GAL) RECOMMENDATION Resample at the next service interval to monitor. (Customer Sample Comment: Changed fluid and filters) WEAR All component wear rates are normal.	Test Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status	UOM hrs hrs hrs	Method Client Info	Limit/Abn	Current PCA0086492 07 Feb 2024 1722 1723 0	History1 PCA0070632 02 Jan 2024 1362 1362	History2 PCA0084724 06 Oct 2023 1041
Resample at the next service interval to monitor. (Customer Sample Comment: Changed fluid and filters) WEAR	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info Client Info	Limit/Aon	PCA0086492 07 Feb 2024 1722 1723	PCA0070632 02 Jan 2024 1362	PCA0084724 06 Oct 2023
Comment: Changed fluid and filters) WEAR	Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status	hrs	Client Info Client Info Client Info Client Info Client Info		07 Feb 2024 1722 1723	02 Jan 2024 1362	06 Oct 2023
WEAR	Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status	hrs	Client Info Client Info Client Info Client Info		1722 1723	1362	
	Oil Age Filter Age Oil Changed Filter Changed Sample Status	hrs	Client Info Client Info Client Info		1723		1041
	Filter Age Oil Changed Filter Changed Sample Status		Client Info Client Info			1302	1041
	Oil Changed Filter Changed Sample Status	1115	Client Info		U	0	0
	Filter Changed Sample Status				Changed	Changed	Changed
	Sample Status		Chefft IIII0		Changed Changed	Changed	_
					NORMAL	NORMAL	Changed NORMAL
	Iron				NONWAL	NORIVIAL	NONWAL
All component wear rates are normal.		ppm	ASTM D5185m	>51	18	26	25
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	0	<1
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	2	2	2
	Lead	ppm	ASTM D5185m	>26	<1	0	4
	Copper	ppm	ASTM D5185m	>26	0	<1	1
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANDIATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	3	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	1	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		8.0	1.3	1.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.6	8.8
	Sulfation	Abs/.1mm	*ASTM D7415		20.9	21.7	21.6
	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 NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	Scalar	visuai	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	1	3
	Boron	ppm	ASTM D5185m		3	0	0
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	3
	Molybdenum	ppm	ASTM D5185m		68	70	65
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		1108	1117	990
	Calcium	ppm	ASTM D5185m		1169	1194	1124
	Phosphorus	ppm	ASTM D5185m		1176	1109	1028
	Zinc	ppm	ASTM D5185m		1457	1388	1237
	Sulfur	ppm	ASTM D5185m		3345	3349	2815
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	16.7	16.6
	Base Number (BN)				9.3	9.5	9.0
	Visc @ 100°C	cSt	ASTM D445		15.7	15.8	16.1







Certificate L2367

Laboratory Sample No.

Unique Number : 10875528

: PCA0086492 Lab Number : 06088083

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Feb 2024 **Tested** : 14 Feb 2024

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 15 Feb 2024 - Don Baldridge

Kemp Quarries - Kemp Stone - Fairland 18350 S 590 Rd

Fairland, OK US 74343

Contact: FAIRLAND NOTIFICATIONS fairland@kempstone.com

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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