

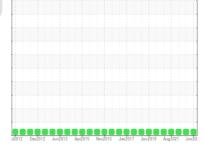
OIL ANALYSIS REPORT

KEMP QUARRIES / PRYOR STONE [69385]

WL078

Diesel Engine

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



Sample Rating Trend



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-2 changed fluid and filters)

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

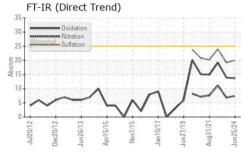
Fluid Condition

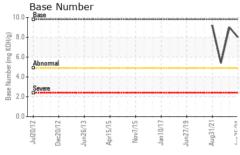
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

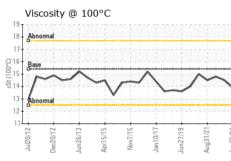
JAL)		JIZUTZ DBCZI	112 Junzula Aprzula	NOVZUIS Janzuli Junzulis Aug	2021 Jun20.	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0126269	PCA0086076	PCA0061912
Sample Date		Client Info		25 Jun 2024	21 Mar 2023	30 Jun 2022
Machine Age	hrs	Client Info		31066	30527	30129
Oil Age	hrs	Client Info		31066	30527	30129
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	45	15	32
Chromium	ppm	ASTM D5185m	>11	<1	<1	1
Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>31	3	2	1
Lead	ppm	ASTM D5185m	>26	6	2	5
Copper	ppm	ASTM D5185m	>26	3	3	4
Tin	ppm	ASTM D5185m	>4	1	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	7	2	9
Barium	ppm	ASTM D5185m	0	<1	<1	0
Molybdenum	ppm	ASTM D5185m	60	55	63	65
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	773	929	1044
Calcium	ppm	ASTM D5185m	1070	1447	1150	1224
Phosphorus	ppm	ASTM D5185m	1150	929	1064	1103
Zinc	ppm	ASTM D5185m	1270	1184	1261	1382
Sulfur	ppm	ASTM D5185m	2060	2663	3103	3977
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	4	4	4
Sodium	ppm	ASTM D5185m	>31	1	0	2
Potassium	ppm	ASTM D5185m	>20	2	2	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1	0.8	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.8	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	19.2	23.9
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.6	13.9	19.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	9.0	5.4
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OIL ANALYSIS REPORT



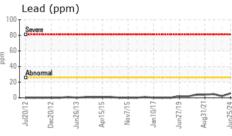


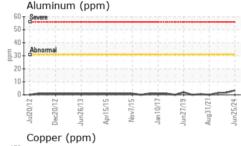


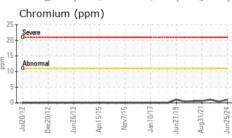
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

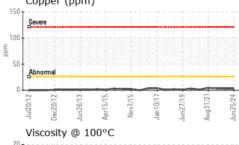
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.5	14.8

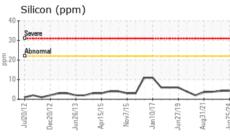
Nov7/15
Jan 10/17 - Jan 10/17 - Jan 27/19 - Aug 31/21 - Aug 31
Jan 10/17 - Jan 27/19 - Aug 31/21 - Aug 31
Jan10/17 - Jun27/19 Aug31/21
Jan10/17 - Jan27/19 - Aug31/21 -
Nov7, Jan10, Jun27,
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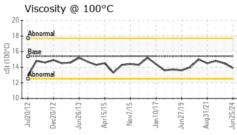


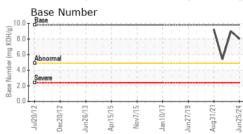
















Certificate 12367

Lab Number : 06225780

Sample No.

: PCA0126269

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

: 02 Jul 2024 **Tested** : 03 Jul 2024 Diagnosed

: 03 Jul 2024 - Don Baldridge

Kemp Quarries - Kemp Stone - Neosho 19148 Ingersol Lane Neosho, MO US 64850

Unique Number : 11109273 Test Package : MOB 1 (Additional Tests: TBN)

Contact: neosho@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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F: