WEAR CONTAMINATION FLUID CONDITION

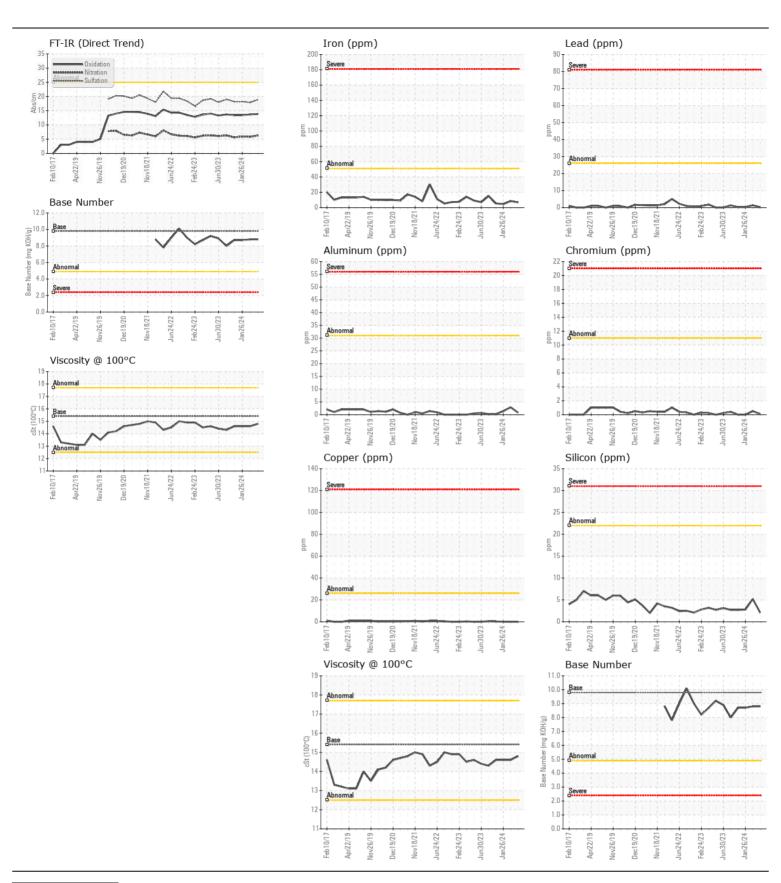
NORMAL NORMAL NORMAL

KEMP QUARRIES / PRYOR STONE [70227]

WP049

Diesel Engine

PETRO CANADA DURON SHP 15W40 ( GAL	<u>/</u>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		PCA0086646	PCA0086288	PCA0086271
Resample at the next service interval to monitor. ( Customer Sample Comment: PM performed. Engine oil sample taken. Engine oil, and all filters changed.)	Sample Date		Client Info		04 Apr 2024	15 Feb 2024	26 Jan 2024
	Machine Age	hrs	Client Info		13103	12777	12494
	Oil Age	hrs	Client Info		366	283	322
	Filter Age	hrs	Client Info		366	283	322
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD	luan		ACTM DE10E		_	0	4
WEAR	Iron	ppm	ASTM D5185m		7	8	4
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		<1	<1	0
		ppm	ASTM D5185m	>5	0	<1 0	<1
	Titanium Silver	ppm	ASTM D5185m ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	3	1
	Lead	ppm	ASTM D5185m		<1 <1	1	<1
	Copper	ppm	ASTM D5185m		0	0	0
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		2	5	3
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	0.4	WC Method	0	NEG	NEG	NEG
	Soot %	% Aba/am	*ASTM D7844		0.9	0.5	0.5
	Nitration Sulfation	Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	6.3 18.9	5.8 17.9	5.9 18.2
	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
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	3	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		2	2	3
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		62	85	60
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium Calcium	ppm	ASTM D5185m		1050	1433	964
	Phosphorus	ppm	ASTM D5185m		1136	1504 1527	1032 1093
	Zinc	ppm	ASTM D5185m ASTM D5185m		1139 1350	1814	1298
	Sulfur	ppm	ASTM D5185m		3840	5147	3251
	Oxidation	Abs/.1mm	*ASTM D3163111		13.8	13.7	13.4
	Base Number (BN)		ASTM D2896		8.8	8.8	8.7
	Visc @ 100°C	cSt	ASTM D445		14.8	14.6	14.6





Certificate L2367

Laboratory Sample No. Lab Number : 06149298

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0086646

Received **Tested** Unique Number : 10979376

: 15 Apr 2024 : 16 Apr 2024 Diagnosed

: 17 Apr 2024 - Don Baldridge

Kemp Quarries - Pryor Stone - Pryor 1050 E 520 Rd Pryor, OK US 74361

Contact: pryor@pryorstone.com

Test Package : MOB 1 ( Additional Tests: 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.

T: F:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)