Dever generation products OIL ANALYSIS REPORT

988 WILSON AVE, KITCHENER 64P05064 BELL CANADA K414539

Right Diesel Engine

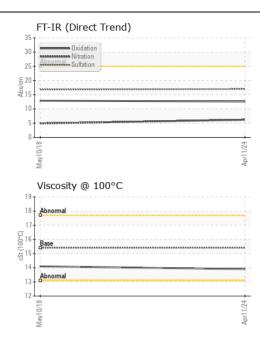
ESSO XD-3 EXTRA 15W40 (8 LTR)

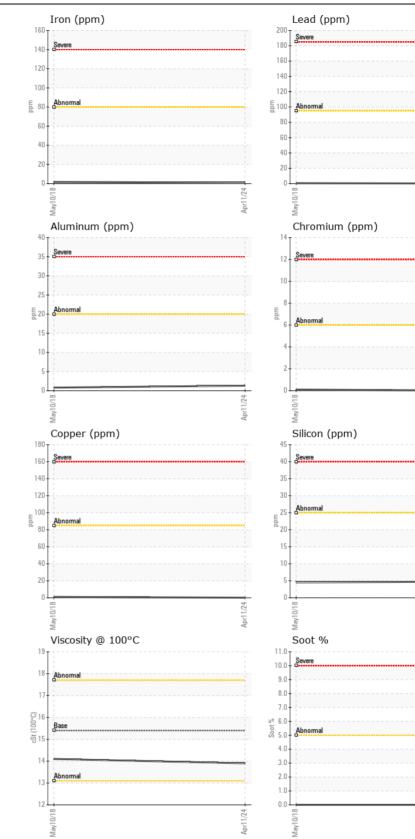
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005855	PN111245	
Sample Date		Client Info		11 Apr 2024	10 May 2018	
Machine Age	hrs	Client Info		412	263	
Oil Age	hrs	Client Info		0	9	
Filter Age	hrs	Client Info		0	9	
Oil Changed		Client Info		Changed	Changed	
-		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>80	1	2	
Chromium	ppm	ASTM D5185(m)	>6	0	<1	
Nickel	ppm	ASTM D5185(m)	>2	0	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	<1	
Silver	ppm	ASTM D5185(m)	>2	0	0	
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	
Lead	ppm	ASTM D5185(m)	>95	0	<1	
Copper	ppm	ASTM D5185(m)	>85	<1	1	
Tin	ppm	ASTM D5185(m)	>9	0	<1	
Vanadium	ppm	ASTM D5185(m)		0	0	
White Metal	scalar	Visual*	NONE			
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185(m)	>25	5	4	
Potassium				0	0	
				<1.0	<1.0	
Water		WC Method	>0.1	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	ASTM D7844*		0	0	
Nitration	Abs/cm	ASTM D7624*	>20	6.2	4.9	
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.0	16.8	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	VLITE	LIGHT	
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	
Appearance	scalar	Visual*				
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
Sodium	ppm	ASTM D5185(m)	>192	1	3	
Boron	ppm	ASTM D5185(m)		47	3	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		42	44	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		444	810	
Calcium	ppm			1620	1240	
Phosphorus	ppm	. ,	1370	978	1035	
Zinc	ppm	()	1500	1109	1199	
Sulfur	ppm			2910	2820	
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.6	12.9	
	Sample NumberSample DateMachine AgeOil AgeFilter AgeOil ChangedFilter ChangedSample StatusIronChromiumNickelTitaniumSilverAluminumLeadCopperTinVanadiumWhite MetalYellow MetalGlycolSoot %NitrationSulfationSiltDebrisSand/DirtAppearanceOdorEmulsified WaterBoronBariumMagnesiumCalciumPhosphorusZincSulfur	Sample NumberSample DateMachine AgehrsOil AgehrsFilter AgehrsOil ChangedFilter ChangedFilter Changedsample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmAluminumppmLeadppmTinppmVanadiumppmWhite MetalscalarYellow MetalscalarGlycolSoot %Soot %%NitrationAbs/rmSiltscalarGlycolscalarSoot %%NitrationAbs/rmSiltscalarCdorscalarSoot %%NitrationAbs/rmSiltscalarCdorscalarAppearancescalarAppearancescalarManganeseppmMagnesiumppmPhosphorusppmZincppmSulfurppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusChromiumNickelppmASTM D5185(m)ChromiumppmASTM D5185(m)NickelppmASTM D5185(m)AluminumppmASTM D5185(m)LeadppmASTM D5185(m)CopperppmASTM D5185(m)VanadiumppmASTM D5185(m)VanadiumppmASTM D5185(m)VanadiumppmASTM D5185(m)VanadiumppmASTM D5185(m)VanadiumppmASTM D5185(m)VanadiumppmASTM D5185(m)FuelWC MethodWaterWC MethodGlycolWC MethodSoot %%ASTM D7844*NitrationAbs/cmASTM D7624*SulfationAbs/cmASTM D7624*SulfationAbs/cmASTM D5185(m)BoronppmASTM D5185(m)BoronppmASTM D5185(m)BariumppmASTM D5185(m)ManganeseppmASTM D5185(m)ManganeseppmASTM D5185(m)ManganeseppmASTM D5185(m)PhosphorusppmASTM D5185(m)SulfurppmASTM D5185(m)Ma	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoIronppmASTM D5185(m)Asmple Status>2IronppmASTM D5185(m)NickelppmASTM D5185(m)SilverppmASTM D5185(m)AluminumppmASTM D5185(m)2SilverppmAstm D5185(m)>20LeadppmASTM D5185(m)CopperppmASTM D5185(m)YanadiumppmASTM D5185(m)Yellow MetalscalarVisual*SiliconppmASTM D5185(m)Yellow MetalscalarVisual*SiliconppmASTM D5185(m)Yellow MetalscalarVisual*Yellow MetalscalarVisual*SiliconppmASTM D5185(m)Soot %%ASTM D762*Soot %%ASTM D762*SulfationAbs/cmASTM D762*Soot %scalarVisual*NONEScalarVisual*DebrisscalarVisual*AppearancescalarVisual*AppearancescalarVisual*AppearancescalarVisual*MolybdenumppmASTM D5185(m)Bariumpp	Sample NumberClient InfoPN0005855Sample DateClient Info11 Apr 2024Machine AgehrsClient Info0Oil AgehrsClient Info0Filter AgehrsClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185(m)>80NickelppmASTM D5185(m)>2NickelppmASTM D5185(m)>2SilverppmASTM D5185(m)>2SilverppmASTM D5185(m)>2CopperppmASTM D5185(m)>2CopperppmASTM D5185(m)>2VanadiumppmASTM D5185(m)>2VanadiumppmASTM D5185(m)>2VanadiumppmASTM D5185(m)>2VanadiumppmASTM D5185(m)>2Vellow MetalscalarVisual*NONESiliconppmASTM D5185(m)>20FuelWC Method>-0NONESiliconppmASTM D7624*>20SulfationAbs/cmASTM D7624*>20SulfationAbs/cmASTM D7624*>20SulfationAbs/cmASTM D745*>30NitrationAbs/cmASTM D745*>30SilfationAbs/cmASTM D7624*>20SotifationAbs/cmASTM D764*>0NonkeVLITEScalarVisua	Sample Number Client Info PN0005855 PN111245 Sample Date Client Info 11 Apr 2024 10 May 2018 Machine Age hrs Client Info 412 263 Oil Age hrs Client Info 0 9 Filter Age hrs Client Info 0 9 Oil Changed Client Info Changed Changed Changed Filter Changed Client Info Changed Changed Changed Sample Status vst NORMAL NORMAL NORMAL Iron ppm ASTMD5185(m) >2 0 <1

Visc @ 100°C cSt ASTM D7279(m) 15.4

14.1

13.9





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 POWER STATION INC. CALA Sample No. : PN0005855 Received 1050 JAYSON COURT : 17 Apr 2024 Lab Number : 02629494 Tested MISSISSAUGA, ON : 17 Apr 2024 ISO 17025:2017 Accredited Laboratory Unique Number : 5762626 : 17 Apr 2024 - Wes Davis CA L4W 2V5 Diagnosed Test Package : MOB 1 (Additional Tests: Visual) Contact: Ryan Udall To discuss this sample report, contact Customer Service at 1-800-268-2131. rudall@pwrstn.com T: (905)565-1621 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. F: (905)629-1499 Validity of results and interpretation are based on the sample and information as supplied.

Contact/Location: Ryan Udall - POWMIS Page 2 of 2

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