

# Ascendum Machinery VOLVO EC350E EX-11 (S/N 314238)

#### **Right Travel**

# VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### **WEAR**

Gear wear is indicated.

#### CONTAMINATION

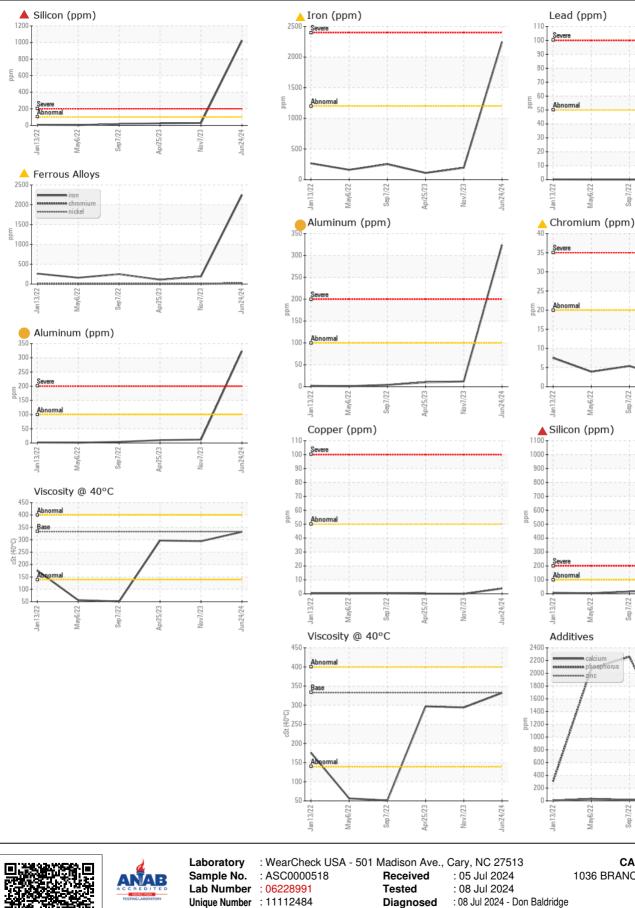
Elemental levels of silicon (Si) and aluminum (AI) indicate aluminasilicate (coarse dirt) ingress.

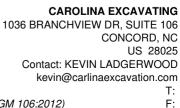
## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sample NumberClient InfoASC0000518ASC0000623VCP0006332Sample DateClient Info24 Jun 202407 Nov 202325 Apr 2023Machine AgehrsClient Info399529932492Oil AgehrsClient Info1002501938Filter AgehrsClient Info000Oil ChangedClient InfoMARAN/AN/AN/ASample StatusClient InfoMARAN/AN/AN/ASample StatusClient InfoMARAN/AN/AN/AIronppmASTM D5185m>1200A24442NickelppmASTM D5185m>5400ChromiumppmASTM D5185m>5400NickelppmASTM D5185m>5400AluminumppmASTM D5185m>50000AgradumppmASTM D5185m>50000AgradumppmASTM D5185m>50000AgradumppmASTM D5185m>50000VanadiumppmASTM D5185m>50000VanadiumppmASTM D5185m>50000VanadiumppmASTM D5185m>50000VanadiumppmASTM D5185m>50000VanadiumppmASTM D5185m					$\frown$		
Sample DateClient Info24 Jun 202407 Nov202325 Apr 2023Machine AgehrsClient Info399529932492Oil AgehrsClient Info1002501938Filter AgehrsClient InfoCChangedChangedOil ChangedClient InfoIN/AN/AN/ASample StatusClient InfoIN/AN/ANASample StatusSitter ChangedClient InfoISEVERENORMALIronppmASTM D5185>12002247192108ChromiumppmASTM D5185>2022442NickelppmASTM D5185>0000AluminumppmASTM D5185>0000AuminumppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>10NONENONESiliconppmASTM D51	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Mischine AgehrsClient InfoJ99529332492Oil Age hrsClient InfoI002501938Filter AgehrsClient InfoChangedChangedChangedOil ChangedClient InfoMAN/AN/ASample StatusClient InfoN/AN/AN/ASample StatusStatusSEVERENORMALNORMALIronppmASTM D5185S2442NickelppmASTM D5185S5400TitaniumppmASTM D5185S5400AluminumppmASTM D5185S5000AuminumppmASTM D5185S5000CopperppmASTM D5185S5000VanadiumppmASTM D5185S5000VanadiumppmASTM D5185S5000VanadiumppmASTM D5185S5000VanadiumppmASTM D5185S5000VanadiumppmASTM D5185S5000VanadiumppmASTM D5185S5000VanadiumppmASTM D5185S5000VanadiumppmASTM D5185S50NONENONESiliconppmASTM D5185S20MONENONE <td< th=""><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>ASC0000518</th><th>ASC0000623</th><th>VCP0006532</th></td<>	Sample Number		Client Info		ASC0000518	ASC0000623	VCP0006532
Oil Age Filter AgeInsClient InfoIn02501938Filter AgeInsClient InfoInInInInInInGlient InfoInN/AN/AN/AN/ASample StatusClient InfoInN/AN/AN/AIronppmASTM D5185>1200A 2247192108IchromiumppmASTM D5185In2442NickelppmASTM D5185In2441SilverppmASTM D5185InIn00AluminumppmASTM D518550000LeadppmASTM D5185550000CopperppmASTM D5185550100Value Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185500100Valuescalar'VisualNONENONENONENONESiliconppmASTM D518550010000Valuescalar'VisualNONENONENONENONESiliconppmASTM D5185>100102328224PotassiumppmASTM D5185>200NONENONESiliconppmASTM D5185>100NONENONESodiumppmASTM D5185>20NONENONESodium<	Sample Date		Client Info		24 Jun 2024	07 Nov 2023	25 Apr 2023
Filter Age Oil ChangedhrsClient InfoOOOOil ChangedClient InfoKhangedChangedChangedChangedChangedChangedFilter ChangedOClient InfoN/AN/AN/AN/AN/ASample StatusSEVERENORMALNORMALNORMALNORMALIronppmASTM D5185m>120024192108ChromiumppmASTM D5185m>5400NickelppmASTM D5185m50400SilverppmASTM D5185m50000AuminumppmASTM D5185m50400LeadppmASTM D5185m50000VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50100VanadiumppmASTM D5185m50100VanadiumppmASTM D5185m50100VanadiumppmASTM D5185m50100VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m110	Machine Age	hrs	Client Info		3995	2993	2492
Oli ChangedClient IntoKhangedChangedChangedChangedChangedChangedFilter ChangedClient IntoN/AN/AN/AN/AN/ASample StatusSEVERENORMALNORMALNORMALIronppmASTM D5185m>120022471922108ChromiumppmASTM D5185m>50400NickelppmASTM D5185m>50400SilverppmASTM D5185m50000AluminumppmASTM D5185m50000CopperppmASTM D5185m50000VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50100VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50100VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50NORENONEVallosscalar'VisualNONENONENONEVallosscalar'VisualNONENORENORESilicon <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>1002</th> <th>501</th> <th>938</th>	Oil Age	hrs	Client Info		1002	501	938
Filter ChangedClient InfoNAN/AN/ASample StatusClient InfoNAN/AN/ASample StatusSTM D5185m>1200A 2247192108IronppmASTM D5185m>20A 2442NickelppmASTM D5185m>5400TitaniumppmASTM D5185m>5400SilverppmASTM D5185m>0000AluminumppmASTM D5185m>1003244122100LeadppmASTM D5185m>50000CopperppmASTM D5185m>50400VanadiumppmASTM D5185m>50000VanadiumppmASTM D5185m>50000VanadiumppmASTM D5185m>100NONENONENONEVellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>20040020WaterVisualNONENONENONENONENONESilitscalar*VisualNORENONENONENONESodurppmASTM D5185m>20MONENONENONESilitscalar*VisualNONENONENONENONESodurppmASTM D5185m>20MONENONENONESodur <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Filter Age	hrs	Client Info		0	0	0
Sample StatusSEVERENORMALNORMALIronppmASTM D5185>12002247192108ChromiumppmASTM D5185>202442NickelppmASTM D5185S400TitaniumppmASTM D5185S400SilverppmASTM D5185S000AluminumppmASTM D5185>50000LeadppmASTM D5185>50400CopperppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>50000VanadiumppmASTM D5185>50NONENONENONEVellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185>10A10232824PotassiumppmASTM D5185>204020WaterVisualNONENONENONENONENONESiliconppmASTM D5185>20A10220NONESiliconppmASTM D5185>20A10220NONESiliconppmASTM D5185>20NONENONENONESodar*15ualNONENONENONENONENONESiliconppm<	Oil Changed		Client Info		Changed	Changed	Changed
Iron ppm ASTM D5185m >1200 ▲ 2247 192 108   Chromium ppm ASTM D5185m >20 ▲ 24 4 2   Nickel ppm ASTM D5185m >5 4 0 0   Titanium ppm ASTM D5185m >5 4 0 0   Silver ppm ASTM D5185m >50 0 0 0   Aluminum ppm ASTM D5185m >50 0 0 0   Lead ppm ASTM D5185m >50 0 0 0   Vanadium ppm ASTM D5185m >50 0 0 0   Visual NONE NONE NONE NONE NONE NONE   Yellow Metal scalar 'Visual NONE NONE NONE NONE NONE   Yellow Metal scalar 'Visual NONE NONE NONE NONE NONE   Yellow Metal scalar	Filter Changed		Client Info		N/A	N/A	N/A
Chromium NickelppmASTM D5185m ASTM D5185m ASTM D5185m>20A 2442NickelppmASTM D5185m ASTM D5185m54000Titanium SilverppmASTM D5185m ASTM D5185m500000Aluminum LeadppmASTM D5185m ASTM D5185m5040000CopperppmASTM D5185m ASTM D5185m50400000Vanadium White Metalscalar*VisualNONENONENONEMODEFNONE	Sample Status				SEVERE	NORMAL	NORMAL
ChromiumppmASTM D5185m>20A 2442NickelppmASTM D5185m55400TitaniumppmASTM D5185m0000AluminumppmASTM D5185m500000AluminumppmASTM D5185m500000LeadppmASTM D5185m500400CopperppmASTM D5185m500400VanadiumppmASTM D5185m50400VanadiumppmASTM D5185m50000VanadiumppmASTM D5185m50100VanadiumppmASTM D5185m50100Vellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>100410232824PotassiumppmASTM D5185m>2040020WaterWC Method>0.25NEGNORENORESolidumscalar*VisualNONENONENONENONEDebrisscalar*VisualNORENORENORENOREAppearancescalar*VisualNORENORENORENOREAppearancescalar*VisualNORENORENORENOREBoronppmASTM D5185m0.020216	Iron	mag	ASTM D5185m	>1200	<b>A</b> 2247	192	108
NickelppmASTM D5185m>55400TitaniumppmASTM D5185m0244<1<1<1SilverppmASTM D5185m5000000AluminumppmASTM D5185m5000000LeadppmASTM D5185m5004000CopperppmASTM D5185m5004000VanadiumppmASTM D5185m504000VanadiumppmASTM D5185m501000VanadiumppmASTM D5185m501000VanadiumppmASTM D5185m5010000VanadiumppmASTM D5185m5010000VanadiumppmASTM D5185m5010000VanadiumppmASTM D5185m501028240Vallow Metalscalar*VisualNONENONENONENONE0SiliconppmASTM D5185m520NEGNONENONENONESiliconscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNORHNORHLNORHLNORHLAppearancesc	Chromium		ASTM D5185m	>20	<b>4</b> 24	4	2
TitaniumppmASTM D5185m24<1	Nickel		ASTM D5185m	>5	4	0	0
Silver ppm ASTM D5185m >100 0 0   Aluminum ppm ASTM D5185m >100 324 12 10   Lead ppm ASTM D5185m >50 0 0 0   Copper ppm ASTM D5185m >50 4 0 0   Tin ppm ASTM D5185m >50 0 0 0   Vanadium ppm ASTM D5185m >50 1 0 0   White Metal scalar *Visual NONE NONE NONE NONE NONE NONE   Yellow Metal scalar *Visual NONE A1023 28 24   Potassium ppm ASTM D5185m<>100 A1023 28 24   Potassium ppm ASTM D5185m<>100 A1023 28 24   Potassium ppm ASTM D5185m<>100 A0 2 0 0   Said/Dirt scalar *Visual NONE	Titanium		ASTM D5185m		24	<1	<1
AluminumppmASTM D5185m>1003241210LeadppmASTM D5185m>500000CopperppmASTM D5185m>50401TinppmASTM D5185m>500000VanadiumppmASTM D5185m>501000White Metalscalar*VisualNONENONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>100 <b>1</b> 020WaterWC Method>.2040200VaterWC Method>.20MONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLGorscalar*VisualNORNORMLNORMLNORMLManganeseppmASTM D5185m0.0222ManganeseppmASTM D5185m0.0222ManganeseppmASTM D5185m0.0222ManganeseppmASTM D5185m0.0211CalciumppmASTM D5185m0.0222 <t< th=""><th>Silver</th><th></th><th>ASTM D5185m</th><th></th><th>0</th><th>0</th><th>0</th></t<>	Silver		ASTM D5185m		0	0	0
Lead ppm ASTM D5185m >50 0 0 0   Copper ppm ASTM D5185m >50 4 0 <1   Tin ppm ASTM D5185m >5 0 0 0   Vanadium ppm ASTM D5185m >5 0 0 0   White Metal scalar *Visual NONE NONE NONE NONE   Yellow Metal scalar *Visual NONE NONE NONE NONE NONE   Silicon ppm ASTM D5185m >100 4 1023 28 24   Potassium ppm ASTM D5185m >20 40 2 0   Water wC Method >0.25 NEG NEG NORE NORE NORE   Debris scalar *Visual NONE NONE NONE NORM NORM   Appearance scalar *Visual NORH NORM NORM NORM	Aluminum		ASTM D5185m	>100	9324	12	10
Tin ppm ASTM DS185m >5 0 0 0   Vanadium ppm ASTM DS185m >5 0 0 0   White Metal scalar *Visual NONE NONE NONE NONE NONE   Yellow Metal scalar *Visual NONE NONE NONE NONE NONE   Silicon ppm ASTM D5185m >100 $\blacktriangle$ 1023 28 24   Potassium ppm ASTM D5185m >100 $\checkmark$ 1023 28 24   Potassium ppm ASTM D5185m >20 40 2 0   Water wC Method >0.25 NEG NEG NORE   Silt scalar *Visual NONE NONE NONE NONE   Debris scalar *Visual NORM NORM NORM NORM NORM   Appearance scalar *Visual NORM NORML NORM NORM   Goron<	Lead		ASTM D5185m	>50	0	0	0
VanadiumppmASTM D5185mI100White Metalscalar*VisualNONENONENONENONEMODEFYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185m>100 <b>1023</b> 282424PotassiumppmASTM D5185m>20402010232824PotassiumppmASTM D5185m>20402010071007100710071007100710071007100710071007100710071007100710071007100710111182216205100710111007101110071011101110071011101110071011 <th>Copper</th> <th>ppm</th> <th>ASTM D5185m</th> <th>&gt;50</th> <th>4</th> <th>0</th> <th>&lt;1</th>	Copper	ppm	ASTM D5185m	>50	4	0	<1
White Metalscalar*VisualNONENONENONENONEMODEYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185m>100 <b>1</b> 02328240PotassiumppmASTM D5185m>204020WaterWC Method>0.25NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMNORMLNORMLNORMLBoronppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.93<1<1ManganeseppmASTM D5185m0.937<11CalciumppmASTM D5185m9337<11PhosphorusppmASTM D5185m932414422PhosphorusppmASTM D5185m93354482904431794	Tin	ppm	ASTM D5185m	>5	0	0	0
Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>100▲ 10232824PotassiumppmASTM D5185m>204020WaterWC Method>0.25NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMNORMNONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.25REGNEGSodiumppmASTM D5185m111182216205BariumppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.93<11<11ManganeseppmASTM D5185m0.937<111QalesiumppmASTM D5185m920118210871011ZincppmASTM D5185m104457SulfurppmASTM D5185m104457SulfurppmASTM D5185m10442904431794	Vanadium	ppm	ASTM D5185m		1	0	0
SiliconppmASTM D5185m>100▲ 10232824PotassiumppmASTM D5185m>204020WaterWC Method>0.25NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLBoronppmASTM D5185m111182216205BariumppmASTM D5185m0.0200ManganeseppmASTM D5185m0.02022MagnesiumppmASTM D5185m9337<1	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
PotassiumppmASTM D5185m>204020WaterWC Method>0.25NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLCdorscalar*VisualNORMLNORMLNORMLNORMLBoronppmASTM D5185m111182216205BariumppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.02022MagnesiumppmASTM D5185m9337<11CalciumppmASTM D5185m920118210871011ZincppmASTM D5185m920118210871011ZincppmASTM D5185m20179354482904431794	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
WaterWC Method>0.25NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.25NEGNEGNEGSodiumppmASTM D5185m111182216205BariumppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.93<11<11CalciumppmASTM D5185m932414422PhosphorusppmASTM D5185m920118210871011ZincppmASTM D5185m104457SulfurppmASTM D5185m20179354482904431794	Silicon	ppm	ASTM D5185m	>100	<b>1023</b>	28	24
Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.25NEGNEGNEGSodiumppmASTM D5185m111182216205BariumppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.02022ManganeseppmASTM D5185m3937<1111CalciumppmASTM D5185m920118210871011ZincppmASTM D5185m104457SulfurppmASTM D5185m20179354482904431794	Potassium	ppm	ASTM D5185m	>20	40	2	0
Debrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.25NEGNEGNEGSodiumppmASTM D5185m111182216205BariumppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.0222MagnesiumppmASTM D5185m3937<11112CalciumppmASTM D5185m920118210871011ZincppmASTM D5185m920118210871011ZincppmASTM D5185m2017354482904431794	Water		WC Method	>0.25	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.25NEGNEGNEGSodiumppmASTM D5185m111182216205BariumppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.93<11<11ManganeseppmASTM D5185m0.02022MagnesiumppmASTM D5185m93241422PhosphorusppmASTM D5185m920118210871011ZincppmASTM D5185m104457SulfurppmASTM D5185m20179354482904431794	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.25NEGNEGNEGNEGSodiumppmASTM D5185m111182216205BoronppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.0200ManganeseppmASTM D5185m0.02022MagnesiumppmASTM D5185m9337<11CalciumppmASTM D5185m920118210871011ZincppmASTM D5185m104457SulfurppmASTM D5185m20179354482904431794	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.25NEGNEGNEGNEGSodiumppmASTM D5185m241<1216205BariumppmASTM D5185m0.02000MolybdenumppmASTM D5185m0.93<1<1<1ManganeseppmASTM D5185m0.020222MagnesiumppmASTM D5185m3937<111CalciumppmASTM D5185m9324144222PhosphorusppmASTM D5185m10445731794SulfurppmASTM D5185m104354482904431794	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>0.25NEGNEGNEGSodiumppmASTM D5185m241<1BoronppmASTM D5185m111182216205BariumppmASTM D5185m0.0200MolybdenumppmASTM D5185m0.93<1<1ManganeseppmASTM D5185m0.02022MagnesiumppmASTM D5185m9337<11CalciumppmASTM D5185m932414422PhosphorusppmASTM D5185m920118210871011ZincppmASTM D5185m104457SulfurppmASTM D5185m20179354482904431794	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 24 1 <1	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 111 182 216 205   Barium ppm ASTM D5185m 0.0 2 0 0   Molybdenum ppm ASTM D5185m 0.0 2 0 0   Manganese ppm ASTM D5185m 0.0 20 2 2   Magnesium ppm ASTM D5185m 39 37 <1 1   Calcium ppm ASTM D5185m 93 24 144 22   Phosphorus ppm ASTM D5185m 920 1182 1087 1011   Zinc ppm ASTM D5185m 104 4 5 7   Sulfur ppm ASTM D5185m 20179 35448 29044 31794	Emulsified Water	scalar	*Visual	>0.25	NEG	NEG	NEG
Barium ppm ASTM D5185m 0.0 2 0 0   Molybdenum ppm ASTM D5185m 0.9 3 <1	Sodium	ppm	ASTM D5185m		24	1	<1
Molybdenum ppm ASTM D5185m 0.9 3 <1	Boron	ppm	ASTM D5185m	111	182	216	205
Manganese ppm ASTM D5185m 0.0 20 2 2   Magnesium ppm ASTM D5185m 39 37 <1	Barium	ppm	ASTM D5185m	0.0	2	0	0
Magnesium ppm ASTM D5185m 39 37 <1	Molybdenum	ppm	ASTM D5185m	0.9	3	<1	<1
Calcium ppm ASTM D5185m 93 24 14 22   Phosphorus ppm ASTM D5185m 920 1182 1087 1011   Zinc ppm ASTM D5185m 104 4 5 7   Sulfur ppm ASTM D5185m 20179 <b>35448</b> 29044 31794	Manganese	ppm	ASTM D5185m	0.0	20	2	2
Phosphorus ppm ASTM D5185m 920 1182 1087 1011   Zinc ppm ASTM D5185m 104 4 5 7   Sulfur ppm ASTM D5185m 20179 35448 29044 31794	Magnesium	ppm	ASTM D5185m	39	37	<1	1
Zinc ppm ASTM D5185m 104 4 5 7   Sulfur ppm ASTM D5185m 20179 35448 29044 31794	Calcium	ppm	ASTM D5185m	93	24	14	22
Sulfur ppm ASTM D5185m 20179 35448 29044 31794		nom	ASTM D5185m	920	1182	1087	1011
	Phosphorus	ppm					
Visc @ 40°C cSt ASTM D445 333 332 294 297				104	4	5	7
	Zinc	ppm	ASTM D5185m				

Submitted By: CLAYTON SMITH





Apr25/23

Nov7/23

Jun24/24

Nov7/23 -

Jov7/23 -

in24/24

un24/24

Sep7/22

Sen7/22.

Sep7/22

Sen7/22

Apr25/23

kor25/23

Apr25/23

\* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : MOBCE

Certificate L2367

Submitted By: CLAYTON SMITH Page 2 of 2